DRUG & CHEMICAL MARKETS

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NEW YORK, JANUARY 7, 1920

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Lawrence C. Stahlbrodt, Adv. Mgr.

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"BUFLOVAK"
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EVAPORATORS

"BUFLOVAK"
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Buffalo, New York

New York Office, 17 Bettery Place

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DRUG & CHEMICAL MARKETS

ESTABLISHED IN SEPTEMBER 1914 AS "WEEKLY DRUG MARKETS"

Vol. VI

NEW YORK, JANUARY 7, 1920

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Labor's Mistaken Hope

The attempt to organize a Scientific Workers' Union to be affiliated with the American Federation of Labor is not meeting with much encouragement from chemists. In the West the "Chemical Bulletin" which is published by the Chicago Section of the American Chemical Society, and in the East the "Catalyst," organ of the Philadelphia and Delaware Sections, discuss the question from an independent standpoint as vital to every chemist, but the editorial writers view the proposition as impractical for many reasons.

Few chemists would tolerate the dictation of walking delegates as to how they should do their work, nor would they blindly follow the leadership of radicals who might attempt sabotage and order the intellectual laboratory assistant to throw a monkey wrench into the mill machinery or smash the chemical glassware. It is hard to imagine a staff of college men demanding a minimum wage, overtime pay at increased rates, or deserting their posts during the working out of a process that requires continual watching and testing. standards of the chemist are too high to permit him to insist upon equal pay for all, irrespective of experience, production capacity, and initiative. It would sound the death knell of the dye and chemical industry in this country, should the research forces come under the influence or control of labor unions.

The encouragement for labor leaders lies in the fact that chemists are underpaid. Many capable men are leaving Government positions because they are unable to live on the small salaries allowed by Congress. Even manufacturers are niggardly in this respect. While compensating the chief chemist in keeping with his position, they do not offer just wages for assistants. Increased pay for men who have spent six years or more in study at leading institutions will go far toward defeating the efforts of the American Federation of Labor to get a strangle hold upon the industry. The labor movement is under way. Why not check it now by raising the chemists' pay?

The Opium and Morphine Trade

The arrival of 75,000 pounds of gum opium by steamers from Turkish ports is counterbalanced in a measure by the expansion of the American export trade in morphine and diacetyl morphine. The shipment is valued at more than \$550,000, and the customs charges, at \$3 per pound, will yield the Government \$225,000 as tariff revenue. With Turkey gum opium at \$6.50 per pound the present shipment does not rank with one received in the Spring which was valued at more than

\$1,000,000, but at that date opium was selling at

three times the present price.

Imports of opium during 1919, according to Government statistics, had totalled over 500,000 pounds for the ten months ended with October. This compares with 135,000 pounds for ten months of 1918, and 108,000 pounds for the corresponding period in 1917. The exports are to all parts of the world, and have been very heavy to Japan, China and India. South American and Central American countries are absorbing large quantities of diacetyl morphine. The demand for narcotics has also increased in the United States.

Piracy of Trade Marks

The pirating of trade marks in European and South American countries by registering the trade names of products having a world market has been brought to the attention of the automobile trade by the discovery that a resident of Oporto, Portugal, has registered the names of leading cars with the evident purpose of compelling the makers to carry on their export trade on his terms. The laws of many countries provide that the person who first registers a trade mark has the right to its exclusive use, as was pointed out repeatedly in articles in Drug and Chemical Markets, last year.

Piracy has been successfully practiced in regard to proprietary preparations and other chemical and drug products, especially in South American countries and in the Far East, and it is not a new question in these industries. The particular incident relating to the automobile trade has drawn attention to the situation anew, because of the present unusual demand for cars in Europe. It is said that Japanese laws are very confusing although a recent decision in a high court of Japan was favorable to an American concern who contested a false claim to its trade mark. Argentina is about to pass laws to put a stop to piratical work of this kind. It is hoped that other countries will follow suit.

UNDERMINING U. S. DYE INDUSTRY

The efforts of importers and dealers in dyestuffs to defeat the Longworth bill are exposed by Dr. Charles H. Herty in "The Journal of Industrial and Engineering Chemistry," published by the American Chemical Society, in an article headed "Kicking Up the Dust." After paying his compliments to the rumor mongers who circulate false reports and make statements that stop just short of libel, Dr. Herty explains the attempt of Kuttroff, Pickhardt & Co., New York, to stealthily undermine the dye industry in the United States. He says in part:

"On October 4, 1919, just two weeks after we had settled down in Paris, there had been secured proposals which would have covered the needs of all American consumers of vat dyes for the next six months. It remained only for some authorized body to close the deal. Meanwhile the allocation certificates had been issued to individual consumers to import through any commercial channel. Confusion and delay ensued. Gradually it was realized that by uniting upon the Textile Alliance, Inc., which had been designed by the State Department to receive the Reparation dyes, quick

action and very reasonable prices could be obtained. Mr. Metz saw this and at once assigned to the Textile Alliance all of the allocation certificates which had been turned over to him. The case was different with Kuttroff, Pickhardt & Co., who held a large number of these certificates, turned over to them by consumers. Only on request of individual consumers did they assign their certificates. to the Textile Alliance."

HEAVIEST HOLIDAY TRADE EVER KNOWN

Early in 1919 apprehensions that general and severe business reaction might accompany the transition to a peace basis seemed not wholly unfounded when the formidable problems of readjustment were considered, says "Dun's Review," and for a time after the signing of the armistice in November, 1918, a decided halting of industrial and mercantile operations was witnessed in

not a few quarters.

Before the Spring of 1919 had fairly started, there had come a reversal of sentiment that resulted in a reawakening of activities which at the outset was gradual and checkered, but which steadily widened in its scope and influence until business in many lines had assumed boom characteristics by the Summer. The impulse behind the commercial expansion, which continued throughout subsequent months of the year, had its beginning in the removal, one by one, of the regulations and restraints of the war period; and when the enormous buying power of the public, largely restricted during the national emergency, reasserted itself, both in the manufacturing and agricultural sections, urgent bidding for commodities began.

With a shortage of goods soon disclosed, and with outputs materially curtailed by labor unrest that later grew more and more menacing, markets that had been depressed quickly became buoyant, and price yielding was succeeded by a rise to unparalleled levels. The year ended with conditions not only having manifested far more stability than had been thought probable twelve months previous, but also with the heaviest

holiday distribution ever known.

LABOR NOT DOING ITS SHARE

The Federal Reserve Board, in its review of December business conditions as they appear in the several Reserve Bank districts, says cautious manufacturers are unwilling to commit themselves far in advance. Credits have been shortened, and uncertainty as to the changes which may come within the next three months is forestalling the expansion in trade naturally to be expected as the Nation gets back more nearly to its peace-time activity.

The high cost of living was referred to as an "un-

questionable menace."

Labor unrest showed some abatement during the month, but the greatly reduced production of the preceding month was not by any means fully restored.

ceding month was not by any means fully restored. "From many sections," the Board asserted, "it is reported that the chief difficulty does not lie in systematic strikes, but in the indisposition of workers to increase production and keep steadily at work. The reduced output as a result of very short hours, or the suspension of work for a given number of days a week, has proved to be a national problem. The disposition of labor to pursue such a policy is ascribed by many to high wages and the desire to employ the increased purchasing power thus obtained in the purchase of leisure rather than goods."

Practically every Federal Reserve District reported that "skilled labor was working only a sufficient number of days to keep going," resulting in a consequent

falling off in production.

Progress in American Dyestuffs

New Colors Produced Successfully and Prices Lowered in Spite of Higher Cost of Crude Materials

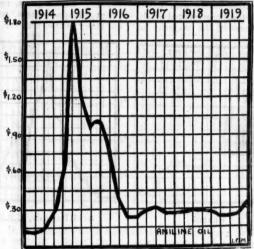
(Copyright, 1920, DRUG & CHEMICAL MARKETS)

MERICAN dyes are in such strong request that manufacturers find difficulty in meeting the requirements of textile and other industries on many of the important colors. Con- \$1.50 sumers are in the market for long-time contracts, something unusual compared with conditions a year ago. This situation has been brought about by the concentrated efforts of American chemists who are producing dyes that are the equal, type for type, of the German dves. The dcmand has not been confined to American consumers, for European buyers have been very active in the American market.

Prices have been steadily declining, until they have reached levels that satisfy most consumers, although there are a few who still in-

sist that quotations are high. Compared with pre-war prices this is true, but production costs are higher, and some crude materials are difficult to obtain. It is probable that prices will go lower because producers are overcoming the difficulties met in the beginning. Today the American manufacturer is able to go ahead in the development of new dyes, without the financial losses he encountered at the start because of lack of expe-

Constant research work is going on in practically all the dye plants, perfecting and improving the processes for making dyes already on the market. Considerable progress has been made during the year in the development of vat colors. The subject is of considerable interest at this time, because the supply of vat dyes expected from Germany will be exhausted in a few months. It is only a matter of time when the Ameri-



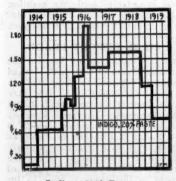
Aniline Oil Price Fluctuations

can manufacturer will be in a position to supply the vat dves needed in this country, but considerable expense must be incurred to get the results that American chemiists are seeking.

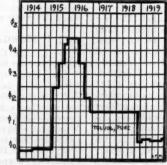
The American public knows the necessity for an independent dye industry in this country, and complaints about colors fading or not being the equal of German dyes are less frequent. Congress is responding to the demand for protection, and the licensing plan has already been approved by the House. Because of the depreciation of the mark, it is very clear that the only means by which adequate protection can be given is by the licensing plan.

The market on coal-tar crudes has shown no spectacular developments over

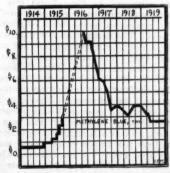
the year. Prices today are for the most part practically the same as during the early part of January, 1919. The demand during the spring was slow, and stocks on most of the items were in heavy supply. Prices declined steadily during the spring on practically all the crudes, with the exception of benzol and toluol. Naphthalene flake sold around four cents owing to the. heavy supplies and lack of demand. Phenol, which was probably in greater supply than any other commodity on the market, dropped to 7c per pound. Production on phenol has been at a standstill ever since the signing of the armistice, because of the tremendous supplies held by the Government, and which were finally placed in the hands of a large American chemical house for distribution, with the understanding that none of the material was to be exported. As a result the domestic market will be well supplied with phenol for some



Indigo, 20% Paste



Toluol, Pure



Methylene Blue, Tech.

time. The foreign demand for phenol has been fairly active at all times, especially from Japan, but sales were generally confined to odd lots which brought high prices compared with the cost of material for domestic use.

Not until the recent coal and steel strikes did coaltar crudes become active. The majority of holders were selling heavily on contract to manufacturers of intermediates. The steel strike cut severely into the production of important crudes, with the result that spot supplies of benzol commanded 40c a gallon during the tightest period of stringency. Toluol was considerably higher, especially among second hands, who boosted the price whenever the opportunity presented itself. However, during the acute stringency the majority of

first hands continued to quote at unchanged levels and did everything within their power to see that the dye industry was well a protected. not until recently that prices of benzol, toluol and naphthalene advanced materially. The cost of coke oven plants has increased three times during the last two or three years. At present supplies of the various crudes are light and

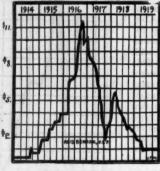
very firm. The rapid recovery of the market for intermediates since last spring has proved very surprising to both the producer and consumer. During the early part of the year prices declined steadily. Stocks were heavy, and shading was current among manufacturers. However, with the signing of the armistice the manufacturer of dyes was given an opportunity to obtain crude material with ease, compared with conditions during the war, when many dye manufacturers were forced to suspend operations because important intermediates were commandeered by the Government. On the other hand, with the beginning of 1919 many intermediate plants were forced to suspend operations because of the heavy Government stocks available which were offered at very low figures. Aniline oil declined to about 20c, and the demand was so light and the price so low that many producers of the oil suspended operations. During this period the demand from abroad for the oil and its derivatives was stronger, and this branch of the industry expanded rapidly. About June the oil began to show signs of scarcity, and in August the price had advanced to 25c. From this time onward consuming requirements increased, until September found the market nominal with offerings around 32c per pound. The demand at this time was far greater than the supply, with the majority of producers sold well into 1920. The same condition existed on many cf the aniline derivatives. Dimethylaniline which formerly sold for 58c is today about 90c on the spot market. Manufacturers are tied up on contract until late in the spring. Paranitraniline has been advancing steadily, and contracts over 1920 have caused a higher market at this time. Aniline salt has been in very heavy demand, with production far inferior to consuming wants. In June the market price was around 26c, whereas today spot goods are commanding 43c and the tendency is upward. Higher cost of crude materials has been a strong factor in price advances, but the real cause is probably the heavy consuming demand from domestic

and foreign consumers. England and Japan have been constant buyers of American-made intermediates. England was in the market recently for large tonnage of various intermediates, but owing to the acute stringency in the domestic market, the majority of manufacturers have refused to sell for export.

At the present time a sold-up condition exists on many of the important commodities. H-acid has advanced rapidly, because of the heavy demand and limited production. This is also true of alphanaphthylamine, paratoluidine and many others. The shortage is felt by many dye producers, who have been willing to pay very high figures, rather than suspend operations. From all appearances, prices will probably go higher on many items, but for the most part a firm market

will be in evidence for many weeks to come.

During the past year new dyes have constantly been developed and placed on the market leading firms. The most important dyes are: Cotton Blue B., an acid blue that is of special interest to the silk industry, paper manufacturers and ink manufacturers; Niagara Blue G Conc., a direct color practically identical with the pre-war



Acid Benzoic, U.S.P.

type; Sulphur Brown 3 B, which is very similar in shade and properties to a pre-war color known as Katigene Red Brown; Alizarine Orange R P. Paste, a wool color possessing excellent fastness to both light and washing. Dyed upon an alum mordant, it produces orange, and combined with chrome, a reddish shade is produced. Because of its very good fastness to washing, it finds considerable application in calico printing.

JURY IN SACCHARIN SUIT DISAGREES

St. Louis, Jan. 6.—The test case brought by the Government against the Monsanto Chemical Works concerning the label used on saccharin which has been on trial here for several weeks ended in a disagreement of the jury. The Government officials attempted to prove that saccharin is harmful when used in food. The burden of proof was on the Government officials, who brought the suit under the Pure Food and Drugs Act.

The case has been pending since 1916. Immediately upon the disagreement of the jury the Monsanto Chemical Works requested the court to proceed at once with the re-trial of the case in order to settle the question as soon as possible, but the Government attorneys declined to try the case again until the next term of court.

J. P. MORGAN & CO. IN EXPORT TRADE

The Foreign Commerce Corporation of America has been organized by interests identified with J. P. Morgan & Co. The corporation is designed to enter trade in Europe on a large scale, and under plans that may lead to the extension of long credits to manufacturers and merchants in the war zone. The same interests control the Foreign Finance Corporation, which is designed to engage in dealing in securities of European rublic and private corporations. E. R. Stettinius who will be chairman of the Executive Committee of the Foreign Commerce Corporation, was the purchasing agent of the British Government in this country prior to the entry of the United States into the war.

Essential Oil Prices During 1919

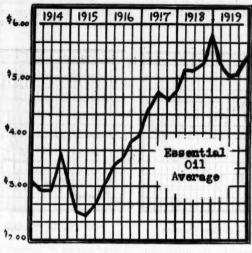
General Level on January 1, 1920, was Six per cent. Lower than at Beginning of Last Year

(Copyright, 1920, DRUG & CHEMICAL MARKETS)

LTHOUGH the past six months have been characterized by steady advances among the essential oils, a rough average of twenty leading products of the group shows that the general level of prices on Jan. 1, 1920, is approximately six per cent lower than at the beginning of 1919. The steady rise since June just failed by a slight margin to bring the average of prices back to the level of a year For the first half of 1919, the essential oil group fell off about thirteen per 43.0. cent. The upward movement during the last six months recovered a trifle more than half of the decline, leaving prices at the end of the year about six per cent below the figures of December, 1918, the latter being on record as the highest peak which has

been reached at any time during the past thirty-five or forty years.

For the purpose of portraying graphically in a very general manner the fluctuation of essential oil prices during 1919 as compared with the five years preceding, the accompanying so-called average chart has been prepared. The prices of the following twenty products, as representative of the group, have been averaged monthly and the results shown in this diagram: Oils of peppermint natural, cedar leaf, sassafras natural, wintergreen synthetic (methyl salicylate), eucalyptus Australian, almond bitter, cassia technical, lemon U. S. P., orange West Indian, bergamot, cloves, sandalwood East Indian, geranium Bourbon, citronella Ceylon, juniper berries rectified, lavender flowers U. S. P. mustard artificial, anise U. S. P., caraway rectified and rose French. Individual charts have been prepared for



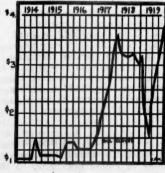
Average Essential Oil Prices Since 1914

oils of peppermint, cloves, lemon, lavender flowers and cassia, because of exceptional fluctuations or of general representative activity during the year.

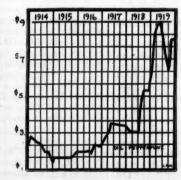
The outstanding feature of the market during 1919 was. perhaps, the general shortage of supplies which characterized the industry in this country almost continuously throughout the last five or six months of the year. Curtailed production of some domestic products, coupled with restricted importations of a great many others, due fundamentally to labor shortage, strikes and general unrest, has been the main factor in the advancing prices which have been noted for the closing months of 1919. From January until June, prices as a whole moved downward, owing principally

to a marked falling off in buying, general business lethargy and somewhat of an improvement in supplies. Realizing later in the year that the genuinely lower prices for which the consuming trades waited, and about which there was a great deal of discussion, were more or less of a myth at that time, buyers re-entered the market, and absorption of stocks by consumers showed a steady increase. As supplies were taken up, reduced production and importations failed to replace them with sufficient rapidity and prices climbed upward. Hand-to-mouth purchases, small in quantity and for immediate requirements only, have been the order of the year. Buyers at no time lost sight of the fact that if, by any chance, prices should decline, they wanted stock-rooms to be as bare as possible.

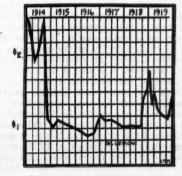
Among the domestic products which have developed scarcities during the year are cedar leaf, cedar wood,



Oil of Cloves



Oil of Peppermint, Natural

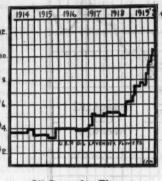


Oil of Lemon

sassafras, spearmint, wintergreen, sweet birch, wormseed and pennyroyal. The imported items are more numerous and include lavender flowers, Australian eucalyptus, bois de rose, petit grain, sweet and bitter orange, bay, coriander, lemongrass, linaloe, patchouli and cubebs.

From \$5.50 a pound at the beginning of the year, ratural oil of peppermint jumped to \$9.00 in April-May. The arrival of the new crop oil eased the price down to \$6.50, but this did not last very long and by October it had rebounded to \$8.00, holding near this figure at the completion of perhaps one of the most spectacular years in the history of the product as far as prices are concerned. The 1919 production aggre-

gated 300,000 pounds, which should have been sufficient to bring the price down considerably below it the present level, but the large Middle to West producers hold that the bulk of the crop was sold immediately after it had been distilled, and their strong financial position enabled them 4 to enforce this view by maintaining the price firmly at the existing figures. Buying on the part of any except the largest con-



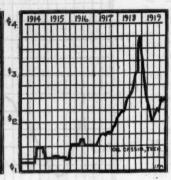
Oil Lavender Flowers

sumers has been practically inhibited by the price. An example of the attitude of consumers is shown by the fact that one of the leading users of U. S. P. peppermint oil, in order to reduce stocks before moving to another city, offered over 5,000 pounds of their excess supply about two months ago at a figure more than 50c a pound below producers' price and as yet have been unable to dispose of the goods. While in consuming circles it is predicted that the carry over by producers from 1919 to 1920 will be very heavy, the latter maintain that they have sold practically the whole 1919 crop and show no disposition to contradict this by reducing prices.

Other domestic oils which have attracted attention because of the short supplies in the city markets and meagre production in the country are cedar leaf and sassafras. The former was quoted at \$1.10 a pound last January, while today it has doubled in price and is quoted at \$2.25. Cedar wood oil has become exceptionally scarce during the latter months of 1919 and has gone from 20c up to 30c a pound at present. Natural oil of sassafras, although scarce at present, is not quite as tight as it was a year ago. The current price is \$1.80@\$2.00 a pound as compared with \$2.25@\$2.40 in January, 1919. The artificial oil, however, has shown a marked advance due to depletion of supplies and has climbed from 50c at the beginning of last year to 85c@90c a pound at present. The scarcity of spearmint, although in a way it is in the class with oil of peppermint, has continued over the whole year. Production has been small, and the price has advanced steadily. Last January, quotations named \$5.50 a pound with nothing to be had. Today the price is \$12.50 with stocks still scarce. Oil of American wormseed was \$4.50 a year ago, while at present it is firm, with supplies very limited, at \$6.25 per pound. Wormwood oil has had a very spectacular rise over the past few months. From \$5.50, the price has moved upward to \$12.00 over the year, the bulk of the advance taking place, however, since October. Distillation of sweet birch has been light for some time and the price tight. Today \$6.00 a pound is quoted. Genuine gaultheria has been very scarce and has risen from \$7.50 to \$10.50 since last January. Methyl salicylate was quoted at \$1.00 a year ago. Today it is 80c a pound for the U. S. P., after having dipped to 40c back in August.

The Messina essences have, perhaps, been of most general interest among the imported essential oils. The orange oils have been the most active during 1919, the prices advancing steadily throughout the year. The scarcity of fruit for pressing purposes has been the chief factor in cutting down the output of oil and caus-

ing shortage both in the West Indies and Sicily. The crops of 1919 were generally short, and growers were able to get a higher price for the fruit as such than by pressing for oil. Prices today as compared with a year ago are nearly double. West Indian sweet was \$1.85 last January. while now it is \$3.75 @\$4.00 a pound. The Sicilian was \$3.00 and is \$5.00 at present. Bitter oil was \$2.00, while today it is \$4.00.



Oil Cassia, Technical

A year ago oil of lemon was quoted at about \$1.85 and higher. The descent during the year, except for a flurry in March, has been steady, the price touching \$1.15 a pound in October. From that time until the present, the trend has been upward, the present quotations naming \$1.45 and up, according to brand. Sicilian producers have been exerting every influence during the past three or four months to drive the price up and have succeeded somewhat. Oil of bergamot has been in little demand during 1919, and supplies have been more than sufficient. As a consequence, the oil has been weak throughout the year, dropping from \$7.00 a pound last January to \$4.50 in September-October. It has recovered slightly and now stands at \$4.75@\$5.00.

Oil of lavender flowers has advanced steadily during 1919 on the strength of under production in France. Manipulation of the small supplies has also been another effective measure in driving the price up. From \$6.50@\$7.00 a pound in January, it has moved up to \$10 @\$11, the latter as to quality and seller. Bois de rose has risen on scarcity from \$5.00 a pound at the beginning of 1919 to \$10.50 at present. Citronella, Ceylon, went up to 65c a pound, in drums, from 40c early in the year. Cassia technical is lower at \$2.35 as compared with \$2.85 a year ago. Cloves opened the year at \$3.25 a pound in tins. It dropped to \$1.50@\$1.60 in April, but on the sharply higher price of the spice very probably due to manipulation in primary markets, the figure for the oil has climbed steadily, until at present it is named at \$3.90 by producers and \$3.60 by brokers. Oil juniper berries has come down from \$11.50 to \$6.50 a pound over the year. Artificial mustard is lower at \$8.50 a pound compared with \$17.50 a year ago.

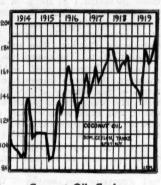
The United Drug Co. has declared a quarterly dividend of 134 per cent on the first preferred stock, payable Feb 2, to stockholders of record Jan. 15.

Year of Great Activity in Fatty Oils

Heavy Imports of Many Vegetable Oils Little Used Here Before the War

(Copyright, 1920, DRUG & CHEMICAL MARKETS)

HE peak of the 1919 fixed oil markets both 20 the point of view of prices and is volume of business was reached along in it July. Both June and July of the past year saw one of the most active buying sessions which producers 12 here have seen for some time. With the 10 arrival of the climax of a strong market at & the end of July, the reaction set in, induced principally by high



Coconut Oil, Ceylon

Cottonseed Oil. Crude

prices here and a shut down of European purchasing as their exchange began to toboggan, and the New York oil market entered upon one of the dullest periods it has experienced. Of course, there have been exceptions, but the general tendency of the market since August has been easier, although prices have been

maintained exceptionally well in the face of meagre demand. Accumulations of stocks at no time have grown very large, and while buying inquiry was active during June and July, there were far from sufficient supplies to take care of the demand.

The most interesting point of the year's oil market is very well illustrated by the comparison of extracts from three reports published at the end of July and early in August. On July 30, the report stated as foilows:

"The feverish activity which has characterized the fixed oil markets here for the past two months or so seems to have become a steady affair with little or no let-up. Trading is brisk at continually advancing prices, with a consuming demand which still appears to be practically insatiable. Crushers are getting such a tremendous volume of business that it is impossible for them to even make an attempt to handle it all. Demand for both export and domestic use is more than double the available supplies."

The first indication that the period of activity was at an end came in the market report of August 6th, as follows:

"Although prices have not weakened in the slightest degree, the volume of business passing among the fixed oils has become markedly smaller since the end of last week. This is not so true of the vegetable oils as it is of the animal and fish oils. Consumers have

just temporarily stopped buying, from all appearances, and at the limited rate which they were able to acquire goods for some time past, it is believed that the present slowing up is merely a lull of short duration."

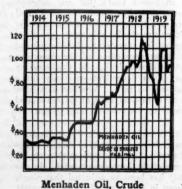
A week later, a further and more pronounced development in the reaction is shown by the tone of an extract from the market report of that week, August 13th,

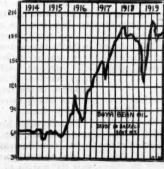
given below:

"Among the animal, fish and vegetable oil markets during the past week, a slight tendency to ease off in the prices of some products was noted among second hand holders. Crushers and refiners, however, are maintaining their former quotations without change, offerings below the market figures being made chiefly by nervous re-sellers who have been watching closely for the first indications of a reaction.

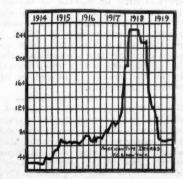
"The volume of business has become considerably reduced since the middle of last week, and the oil market in general is seeing the quietest period just at present which has been noted for several months."

Early in January, 1919, prices were about evenly divided as compared with to-day, some being higher and some lower. Coconut oil has been a leading factor in the market throughout the year. A year ago the price for Ceylon oil domestic pressed in barrels on the spot was about 17c a pound. For tanks, the price was 151/2c. In June, they were 171/2c and 161/2c respectively, in





Soya Bean Oil, Crude



Degras Oil, American

October 18c and 17c while to-day they stand at higher levels, 191/4c for barrels and 19c for tanks in New York. Soya bean oil has moved close to coconut. In January the price for crude oil in barrels in New York was 151/2c while for tanks on the Coast it was 13c. It went as high as 18½c and 16c at the July peak but down again to 17c and 15c in October. Today it is 18c for barrels snot and Coast tanks are named at 16c. Olive oil denatured was \$4.25 last January. It dropped to \$2.25 by June, went up to \$2.50 in July and has remained there. Foots have been scarce all the year and practically nominal. In January they were 35c. From March till October no prices were heard when some small lots became available at 18c. To-day the price is 19c. Lagos palm oil in casks was 21c in January, 16c in June 17c in July, 171/2c in October and 17c to-day. Niger oil was about a cent or so lower all the way. The cessation of a real heavy demand for castor oil early in 1919 dropped the January figure from 40c to 21c. At present it is 20c for AA in barrels. Peanut oil crude domestic in tanks at the mill was quoted at 17c at the beginning of 1919. Supplies were cleaned out from June till September. October saw 22c and the present 231/2c. Chinese crude in tanks on the Coast is to be had at 23c. Refined oil went from 22c in January up to 30c in July, dropped to 25c in October but has recovered to 28c to-day. Corn oil has been very scarce for some time. Prices through the year for the crude and refined in barrels respectively were 18c and 211/2c in January, 20c and 25c in June, 23c and 281/2c in July, 16c and 221/2c in October and

The animal oil market has reflected closely the course of tallow, stearines and greases. For edible tallow, the market hit 25c in June, dropped to 21c in August, 20c in October and closed the year at 17½c. City taiiow was 12c in January, went as high as 18½c in October and is now down to 14c. American degras was 18c at the beginning of the year. The English style was 28½c. By June they were down to 6c and 9c respectively and closed the year at 7c and 8c. Neatsfoot, 20-degree cold test pure came down from \$3.15 last January to \$2.25 today. The prime also declined from \$2.25 to \$1.75. Red oils and lard oils closed the year very close to the levels of last January. Menhaden crude oil was \$1.05 and \$1.00 respectively for Southern in barrels and Northern in tanks. Both touched \$1.15 per gallon in July and are now 90c@95c. Cod oil was \$1.55 for the Newfoundland and \$1.45 for the domestic at the opening of the year. They are now \$1.12 and \$1.10 per gallon.

Linseed oil has been marked by a shortage of both seed and oil over practically the entire year. The condition became acute along in June-July and with crushers naming \$2.22 per gallon for barrels in car lots, there was little or nothing to be had outside. The figure in January, 1919 was \$1.55 which climbed to \$2.22. By October improvement in seed supply brought crushers' quotations down to \$1.72. Active demand from the paint and varnish trades for the last two months or so has sent spot oil up again to \$1.87. China wood oil has been in very heavy demand and strong in price on the position of linseed, as have many other substitute drying oils.

E. F. Brundage, of the Maryland Chemical Co., Baltimore, has accepted the management of the Baltimore business of the General Chemical Co., New York. Mr. Brundage was secretary of the Maryland Chemical Co., and also in charge of the Baltimore plant of the General Chemical Co. He now takes over the management of the General Chemical Co's office in conjunction with his work as superintendent of the plant.

TARIFF BOARD'S REPORT ON ACIDS

Development of Plants for Producing Formic, Oxalic and Gallic Acids in the United States—Increased Demand for Gallic Due in Part to Dye Industry

In its third annual report submitted to Congress with the close of 1919 the United States Tariff Commission outlines the work of the Commission on acids dutiable under paragraph 1 of the tariff act of 1913, as well as the raw materials from which such acids are made, and several closely allied commodities which are dutiable under other paragraphs. This report has been sent to the Government Printing Office and will soon be available for distribution. The commission says:

These acids present tariff problems of a most varied character. In several cases there were notable developments of the industry in the United States during the war. This was particularly true with reference to formic, oxalic, and gallic acids. These acids, formerly almost entirely secured from Germany, are now being made in the United States in substantial amounts.

Formic acid was controlled by the German industry before the war, not through lack of essential raw materials in other countries, but because German chemists had discovered and developed the best-known method of making sodium formate, which serves as the basis for making formic acid. Formic acid was made in the United States before the war from imported sodium formate. The Germans had an advantage in technical experience and commercial connections that would have made it difficult for any American manufacturer to make a successful start in this industry, if competition from Germany had not ceased. During the war the complete process of making formic acid from caustic soda and coke has been developed in the United States.

Oxalic acid is closely related to formic acid, since sodium formate is also the basis of one of the methods for its manufacture. During the war a promising beginning was made in the United States in the manufacture of oxalic acid by this method from locally available raw materials. The process in use by the only American manufacturer before the war depends upon heating saw-dust with caustic potash imported from Germany or made in this country from imported German potash salts. The scarcity of potash seriously affected the industry and caused the price of oxalic acid to increase sixfold. During 1918 and 1919, however, large importations from England, Norway, and Holland have brought the price down to a somewhat lower level.

In the case of citric acid the American industry has been dependent on citrate of lime imported from Sicily. Citrate of lime is made from "cull" lemons and may thus be regarded as a by-product of the lemon-growing industry. It is only in recent years that any attempt has been made to recover these by-products in the United States. Although there is a large American lemon-growing industry, the cultural methods commonly practiced in the United States are so far superior to those employed in Sicily that a much larger proportion of the American crop can be marketed as fresh fruit, and this country will therefore continue to be dependent on Sicily for a large fraction of its supply of acid. Whether it will be imported in the form of citrate of lime or of citric acid will be largely determined by the relative rates of duty on these products.

Tartaric acid, like citric acid, is made from imported raw materials, but there is no prospect of the development from domestic sources of any appreciable supply of the essential raw materials for tartaric acid. In the past the margin of duty has been so adjusted that nearly all the imports have been in the form of crude materials.

The raw materials are by-products of the wine industry, and carry an ad valorem rate of duty. The products made therefrom, especially tartaric acid and cream of tartar, are dutiable at specific rates. The advance in prices which has occurred since the passage of the tariff act of 1913 has, in effect, diminished the margin of protection. Italy, which is one of the large sources of supply, has imposed a small export duty on the raw materials, but no export duty on the finished products, and this has had the effect of further decreasing the effective margin of duty in the United States.

Tannic acid, gallic acid, and pyrogallic acid are derived entirely from nutgalls which are also imported raw materials. "Tannic acid" and "extract of nutgalls" are essentially similar articles. The former is usually a somewhat purer and better grade than the latter, although there is no sharply defined difference. There is, however, a large difference in the rates of duty, tannic acid being dutiable at 5 cents per pound and extract of nutgalls at three-eighths of a cent per pound. The growth of the new American dye industry has greatly increased the demand for gallic acid.

The following products are still under inquiry and the results will be published in a later report:

Acids: Salicylic; Agar-agar; Alizarin assistant; Amber, Amberoid, unmanufactured; Anilin: Oil, Salts; Artists' paints, colors and pigments; Balsams: Copaiba, Canada, Peru, Tolu; Castile soap; Chromium, colors; Civet; Coca leaves; Cosmetics; Dyewoods, extracts of; Enamel paints, Enamels; Extracts; Chlorophyll, Dyeing; Gelatin, manufactures of; Gentian leaves; Glazes; Glue; Gum Arabic; Ink, Ink powders; Isinglass; Logwood, extract of; Musk; Ocher and ochery earths; Oils: Cod and codliver, Linseed, Olive, Palm, Palm kernel, Peanut, Peppermint; Perfumery; Sarsaparilla root; Sienna, earth; Soap: Castile, Medicinal, Powder, Toilet (perfumed); Toilet (unperfumed); Umber and umber earths; Vanilla beans.

This census for 1918 shows that there is no insuperable obstacle to the growth of the dye industry in the United States. The finished products are now made almost entirely from American raw materials and intermediates. One hundred and seventy-six intermediates were made on a commercial scale, and in addition 23 others were made in relatively small quantities for sale, research, or experimental purposes. The intermediates most needed are now available, although many important ones are still missing, and the prices of many most needed are still abnormally high. The report shows that there were over 200 firms, including 78 manufacturers of dyes, that manufactured coal-tar chemicals in 1918.

The total production of dyes in 1918 was 58,464,446 pounds, valued at \$62,026,390, which is an encouraging gain over the 1917 output. The report also shows that, with comparatively few exceptions, prices of individual dyes were lower in 1918 than in 1917 in spite of the general rise in wages and in prices of most other commodities. More than 300 different dyes were made in the United States during 1918. Many of the dyes which were lacking in 1917 appeared on the market in 1918. report shows that the American industry is especially strong in the classes of dyes known as "azo," "sulphur, and "induline" dyes. Alizarin and two alizarin derivatives were made, but in amounts considerably below the normal demand. These dyes are an important group of fast mordant dyes for wool. No dyes derived from carbazol were made in 1918, and only a bare beginning was made in the production of the extremely important class of vat dyes derived from anthracene, known as indanthrene dyes, which are fast dyes for cotton.

Financial Notes

Among the securities sold at the Auction Salesroom, 14 Vesey street, New York, last week, were 242 shares of first preferred stock of the Independent Chemical Co., Inc., which brought \$40 per share. The company's New York office is at 122 West street.

The National Licorice Co. has declared an extra dividend of 2 per cent in addition to the usual semi-annual dividend of 2½ per cent on the common stock, both payable Jan. 7 to holders of record on that date. An extra dividend of the same amount was declared six months ago.

The American Trading Company has announced payment of the annual 2 per cent quarterly dividend on its \$2,500,000 preferred stock, and in addition a 4 per cent dividend on the \$2,500,000 stock of the company from the 1919 earnings. This dividend is payable Jan. 15.

At a special meeting of the stockholders of the Minard Liniment Manufacturing Co. in Boston recently it was voted to change the name to Minard Co.; to increase the preferred stock from \$20,000 to \$100,000 made up of 10,000 shares, par value \$10 each. Dividends will be at 8 per cent per annum, payable quarterly, cumulative.

QUOTATIONS ON CHEMICAL STOCKS

Bid	Asked	Bid	Asked
	8	H'k Electro 70	75
Aetna Expl., pf 57	68	H'k Elec., pf 65	75
Air Reduction 48	51	Heyden Chem 51/2	6
	95		21
*Am. Ag. Ch 93	97	*Int. Agricul 191/2	81
*Am. Ag., Ch., pf 961/2		Int. Agricult., pf 30	
Am. Chicle 87	89	*Int. Nickel 24	241/2
*Am. Chicle, pf 80	84	Int. Nickel, pf 90	98
*Am. Cot. Oil 53	54	*Int. Salt 70	71
*Am. Cot. Oil, pf 88	93	K. Solvay 80	110
Am. Cyan 30	35	*Mathieson Aik 381/2	40
Am. Cyan., pf 55	66	Merck & Co., pf 93	98
*Am. Druggists S 12	123/2	Merrimac 89	92
Amer. Glue 40	45	Mulford Co 55	60
Amer. Glue, pf 65	70	Mutual Co150	
*Am. Linseed 751/2	76	*Nat. A. & C 721/2	73
*Am. Linseed, pf 93	96	*Nat. A. & C., pf 89	90
*Am. Malt 44	47	National Lead 81	83
Amer. Zinc 18	181/2	National Lead, pf108	110
Amer. Zinc, pf 52	56	N. J. Zinc270	275
Atlas Powder150	160	Niag. A., pf 96	100
Atlas Powd., pf 88	91	Parke, Davis & Co.128	130
*Barrett Co132	135	Penn. Salt 78	78%
*Barrett Co., pf113	114	Procter & Gamble676	695
British Am. Chem 71/2	8	Procter & Gam., pf101	10136
Butterworth-Jud 33	. 35	Rollin Ch 50	60
By, Prod. Co110	116	Rol. Ch. pf 80	98
Carborundum135	135%	Roya! Baking Po135	145
Carborundum, pf1151/2	116	Royal Bak. Po., pf. 92	94
Casein Co 40	45	Semet S160	175
Celluloid Co135	145	Sherwin-Williams520	540
Celluloid, pf	***	Solv. Proc190	300
Corn Products 86	87	Stand. Ch 90	100
	109	Swan & Finch100	115
Corn Products, pf. 107	35	*Tenn. C. & Chem. 101/2	11
Davison Chem 341/2	200	Tex. Gulf. Sul 1514	15%
Dow Chem175	103	Union Carbide 74	75
Dow Ch., pf			11 57711
Du Pont360	390	Union Sulphur	440
Du Pont, debs., pf 921/2	93	*Un. Drug140	143
Du Pont, C. pf 9	10	*Un. Drug 1st pf 511/2	. 52
Freeport, Tex., Sul. 34	35	*Un. Dyewood 50	61
Freept. Tex., Sul. pf. 91	93	*Un. Dyewood; pf 90	96
*Gen. Chem185	200	U. S. Gypsum	
*Gen. Chem., pf 97	100	*U. S. Indus. Alco114	115
Grasselli	180	U. S. Indus. Al., pf.100	105
Grasselli, pf101	102	VaCar. Chem 70	71
Hercules, Powder220	226	"VaCar. Ch., pf108	112
Hercules, Powd., pf.107	110	V. Vivaudou 20	201/2

BONDS

			Asked
*Am.	Agricul. Chem., 1st conv. 5s, 1928	97	99
Am.	Agricul. Chem., conv. deb. 5s. 1924	100	101
"Am.	Cotton Oil deb. 5s. 1931	88	89
"Int.	Agricul. Corp., 1st Mort. & Col. tr. 5s 1932	8314	85
Va.	Carolina Chem., 1st Mort. 5s. 1923	9434	85 95
Va.	Carolina Chem., conv. deb. 6s, 1924	101	102
	"Listed on New York Stock Exchange		100

The Drug and Chemical Market

Current Spot Quotations of Pharmaceuticals, Page 28; Crude Drugs, Pages 30-32; Essential Oils, Page 34

MANY DRUG PRODUCTS LOWER

American Manufacturers Cut Tartaric Acid, Citric Acid, and the Citrates—Norwegian Cod Liver Oil and Bismuth Salts Decline—Wood Alcohol, Formaldehyde and Glycerin Higher

PRICE CHANGES IN NEW YORK (Stocks in First Hands) Advanced

Elecampane Root, 2c tb.

Pure, 30c gal. Anthyrine, 25c fb. Balsam Fir Canada, \$1 gal. Blueflag Root, 7c fb. Colchicum Root, 10c fb. Cotton Root Bark, 10c fb. Cuber's Root, 2c fb. Culver's Root, 2c fb	Formaldehyde, 4e fb. Glycerln, C.P., 1e fb. Dynamite, ½c fb. Mezereon, 2c fb. Pepper, White Sing., 1c fb. Sandarac Gum, 5c fb. Soap Bark Crush., 1e fb. Tragacanth, No. 1, 25c fb.
-th and he emblack out De	clined
Acid Citric, 3c fb, Acid Tartaric, 5c fb, Aloin, 5c fb, Bismuth Subnitrate, 25c fb, Subgallate, 45c fb, Subcarbonate, 20c fb Cantharidea, Russ., 25c fb, Celery Seed, 2c fb.	Iron Citrate, VIII, 3c fb. & Ammon. Citrate, 3c fb. Green Scales, 4c fb. Phosphate, 2c fb. Pyrophosphate, 2c fb. Mustard Seed, Eng., Yel., 1c fb Orris Root, Floren, 2c fb. Potass. Citrate, 3c fb.

Cantharldes, Russ., 25c b.
Celery Seed, 2c fb.
Cod Liver Oil, Norweg., \$13 bb!. Quinine, 5c oz.
Dill Seed, 1½c fb.
Dragon's Blood Reeds, 50c fb.
Gum Mastic, \$c fb.
Haarlem Oil, Dom., 25c gross

Cantharldes, Russ., 25c fb.
Colery Seed, 2c fb.
Code Cartelle, 2c fb.
Sodium Citrate, 3c fb.
*Second Hands

Trend of the	ne Marke	et		
A STATE OF THE STA	Today	Last Week	Last- Month	Last Year
Acid Sallcylic	\$.53	\$.53	\$.48	\$.87
Calomel		1.68	1.59	2.00
Camphor, Jap., ref	3.40	3.30	3.60	2.40
Glycerin, C.P.	24	.24	.21	.20
Menthol	12.50	12.50	13.00	7.00
Opium, Gum	6.75	6.75	7.00	22.56
*Ouinine Sulphate	90	.95	1.10	1.10
Cantharides, Russ		4.00	3.75	3.50
Ergot, Spanish		5.00	4.00	2:50
Buchu, Short		2.45	2.25	2.70
Ipecac. Cartagena		3.20	3.00	4.30
Rhubarb, H. D		1.75	1.85	83
Cloves, Zanzibar		.51	.55	.41
*Second Hands		11111		

Many important price changes have been noted among the fine chemicals and drugs during the past week. Business generally shows no unusual developments, moderate and conservative trading reported as moving a fair volume of merchandise. Scarcities of many items continue to attract the attention of the trade. There have been a larger number of price reductions this week than has been noted for some time past.

A further sharp advance in wood alcohol has been announced by producers which in turn has driven formaldehyde higher. Refiners have put the price of glycerin up again, Some of the bismuth salts have been sharply reduced. Manufacturers have cut the price of tartaric acid. Citric acid and the citrates have been lowered again by American makers. Second hand quinine is easier. Castile soap has gone down. There has been a sharp drop in the price of Norwegian codliver oil. Domestic haarlem oil is weaker. Antipyrine has firmed up notably.

Among the crude drugs advances have predominated. Canada balsam fir is higher and very scarce. Cotton root bark has gone up as have mezereon and crushed soap barks. White tragacanth ribbons are again higher. Cubeb berries are firmer. Blueflag, colchicum, Culver's and elecampane roots have advanced. Gum sandarac and white Singapore pepper are up. Russian cantharides are easier. Dragon's blood reeds have come down

in one quarter. Gum mastic, Florentine orris, celery seed and dill seed are lower.

Fine Chemicals

Acid Tartaric—American manufacturers have reduced the price of tartaric acid to 69c a pound for U. S. P. crystals and 69½c for powdered. Second hands have announced no change in the 70c@71c level which they have been quoting for some time. Importations of crude tartar last week included 521 sacks and 42 casks from Marseilles and 746 bags from Buenos Aires,

Alcohol—The acute scarcity of wood alcohol has compelled makers to advance the price sharply to \$1.56@\$1.60 per gallon for the 95 per cent and \$1.59@\$1.63 for the 97 per cent. Pure methyl spirit is available at \$2.05@\$2.10. In outside hands there is little or nothing to be had even at the premium figure of \$1.70@\$1.75 per gallon for the 95 per cent.

Aloin—On the increased supply and cheaper cost of aloes, makers have reduced the price of aloin to 90c@95c a pound.

Antipyrine—Reduction of spot stocks without additional supplies to replenish them has produced a decidedly firmer condition in the market for antipyrine. Most holders are asking \$6.00 a pound for their goods but it is stated that \$5.85 can still be done in some quarters.

Bismuth—Sharp reductions have been made in some of the bismuth preparations owing to the lack of demand and lower cost of the metal. The subnitrate has been reduced to \$2.75 a pound in 25 pound lots. The subgallate has been cut to the same level. For the U. S. P. subcarbonate, \$3.00 a pound is the new quotation.

Borax—Supplies are very sparse and difficult to find. Prices in most quarters for second hand material are over 9c. Producers quote 8½c@9c a pound for crystals in barrels and 8¾c@9½c for U. S. P. crystals in kegs, limiting orders at these figures.

Camphor—Japanese slabs show little change this week. Quotations for cases name \$3.40 a pound for slabs and up to \$3.50 for tablets. Importations last week totalled 1125 cases of crude from Chinese and Japanese ports and 300 cases of refined from Kobe. American refiners are delivering in better quantities at the present time at \$3.30.

Citrates—On the lack of interest in citric acid and its generally easy position at present, American manufacturers have cut their figures for the acid and also the citrates. For crystals in barrels, 84c a pound is named and 85c for the powder. No alteration in the 85c second hand figure has been noted but it will likely decline shortly. Sodium citrate, VIII, is now \$1.09 a pound while the granular IX is quoted at \$1.24. Potassium citrate is \$1.78 for U. S. P. Iron citrate is named at \$1.22 a pound with iron and ammonium citrate at \$1.07, the green scales at \$1.33, phosphate at \$1.04 and pyrophosphate at \$1.09 a pound.

Codliver Oil—The price for Norwegian oil is sharply lower at \$95.00@\$97.00 a barrel. Importations last week included 375 barrels from Christiania. Supplies in this market are notably larger with the consequent easier price. Newfoundland oil is steady without change at \$90.00@\$92.00.

Formaldehyde—On the scarcity and sharp jump in wood alcohol, formaldehyde has tightened up consider-

ably this week. Sales have been made up to 38c a pound and the general opinion seems to indicate that the price is very likely to go to 45c on a parity with the cost of methyl alcohol.

Glycerin—Glycerin is maintained in a very strong position. Refiners have just advanced the price for the C.P. to 25c a pound in drums. Down to 24c can still be done in outside hands. Demand is active. Dynamite glycerin is firm at 24c@24½c per pound.

Haarlem Oil—Owing to the good supply of haarlem oil here, the domestic is easier. Competition has also been a factor in sending the price down to \$3.50 per gross. Up to \$3.75 is asked for some brands. Imported is steady at \$5.50.

Quinine—There has been little change in the position of quinine this week. The product is still easy with offerings reported down to 90c per ounce in second hands for Java sulphate. Good sized lots are still available here. The Dutch syndicate has just advanced the price abroad and a turn about with an upward trend of prices in the near future on this market would not be surprising. American makers continue to restrict orders at the 90c figure. Thirteen cases came in from London last week.

Soap, Castile—White Castile soap is lower here on larger imports. Supplies are available here down to 26c a pound. Powdered is still named at 38c@40c for U. S. P.

Crude Drugs

Balsam Fir—Canada balsam fir is higher at \$14.75 a gallon and continues exceptionally scarce. Balsam Peru is also in very light supply and is firm at \$5.00 a pound.

Blueflag Root—The best price for such stocks as are obtainable here now is 45c a pound.

Cantharides—The high price of Russian cantharides has driven many to use the Chinese with a consequent falling off in demand for the former. The price has been reduced to \$3.75 a pound for whole and \$3.95 for powdered. Chinese are firm at \$1.40@\$1.45 for whole and \$1.55 for powdered. They are very liable to move higher.

Celery Seed—The seed is in a weak position and the price is lower. Quotations for good-sized lots name down as low as 30c. Up to 31c and higher is quoted also as to seller.

Colchicum Root—On the reduced supply here and advanced ideas of sellers, colchicum is bringing higher prices. Quotations range from \$1.60 a pound inside now up to \$1.65.

Cotton Root Bark—Due to inability to get people to collect the bark last fall and spring and the fact that it is now between seasons the price has gone up to 40c in some quarters. Others maintain that 26c can sti'l be done on spot. Offerings of small lots at sharp advances in the country are noted.

Dill Seed—The seed is very weak with no demand at 11c a pound.

Dragon's Blood Reeds—A Philadelphia holder has dropped the price to \$2.00 a pound. Small lots still sell for \$2.50 here.

Gum Mastic—Down to 95c a pound can be done for mastic now. Some holders are asking \$1.00. Supplies are materially improved.

Orris Root—There have been heavy importations of Florentine orris root, and the price is easing off. At present 20c a pound can be done without a great deal of difficulty.

Tragacanth—A further advance in the price of white ribbons this week has brought the inside figure up to \$5.25 a pound. Some are naming \$5.50 for their goods.

Drug Trade News Notes

Raymond Cardona, of J. L. Hopkins & Co., sailed this week for South American ports.

The McNary bill, continuing the United States Sugar Equalization Board through 1920 has been signed by President Wilson.

F. A. and Hugo W. Druehl, Salt Lake City, Utah, have bought the interest of Walter F. Druehl in the Druehl Drug Co.

The Liquid Carbonic Co., 3100 South Kedzie avenue, Chicago, Ill., is to construct a gas manufacturing piant at Indianapolis, Ind., to cost about \$50,000.

The Gibson-Snow Co., Albany, N. Y., has purchased a building in Buffalo, for use as a wholesale drug house. The company owns a chain of wholesale stores in New York State, including Troy, Syracuse and Rochester. The business was established in 1829 at Albany. The Rochester branch was started in 1906.

The business conducted by John H. Yocum for nineteen years, at 325 Academy street, Newark, N. J., has been incorporated under the name of The Yocum Laboratories. The new corporation began business at the above address on January 1. On May 1, the corporation will take possession of its new laboratory at 168-178 Coit street, Irvington, N. J.

A vast conspiracy to flood the market with fake salvarsan has been discovered by the police of Munich. Eavaria. More than forty persons are under arrest, including a Government official, an army officer, two merchants and an artist. Large quantities of the fake medicines were seized. The fake salvarsan was being sold through secret channels.

The Duane Sugar Refining Co., of Connecticut, recently incorporated with capital stock of \$500,000 has bought the plant at Waterside, Conn., formerly occupied by the Synthetic Color Co. and later by the Edgeworth Arsenal, and will equip a sugar refinery to refine sugar for the Stollwerck Company and allied industries. It is expected that the new refinery will be in operation in about three months and give employment to 100 hands, mostly unskilled labor. It is stated that the moving spirit in the refinery company is H. B. Duane, who bought the Stollwerck Company for the Touraine Company of Boston at public auction, Dec. 23, 1918, when the local factory was sold by the alien property custodian.

DAMAGES FOR COMMERCIAL BRIBERY

The Cleveland Woolen Mills has recovered \$25,000 from the Warren Soap Mfg. Co., of Boston, in a suit involving the question of bribery of employees of the Cleveland company. The company also sued W. H. Durkee, former superintendent, and obtained a judgment for \$16,000, being the amount of commissions received by him. The bribed employees were sentenced to three months in jail and were also heavily fined.

The suits were brought by the Department of Justice. Officers of the Warren Soap Mfg. Co., were indicted on a charge of conspiracy to violate a section of the postal laws prohibiting the use of the mails in furtherance of a scheme to defraud. It was decided by the Court that an arrangement to pay graft is a scheme to defraud the employer.

The Essential Oil Market

Current Spot Quotations of Essential Oils and Aromatic Chemicals, Page 34

ESSENTIAL OIL TRADE BRISK

Oils of Orange, Lemon and Sandalwood Higher—Advances Made in Methyl Salicylate and U. S. P. Oil of Lavender Flowers—Oils of Bergamot, Caraway and Coriander Lower

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Oil Wintergreen, Artif., 5c lb. Oil Orange, Sweet Sicilian, 25c lb. Methyl salicylate (Above) Sweet West Indian, 50c lb. Oil Lavender Flowers, 50c lb. Oil Lemon, 5c lb. Oil Sandalwood, E. I., 25c lb. Declined

Oil Bergamot, 10c tb.

Oil Corlander, \$5 fb.

Trend of the Market

and a section for the	Today	Week	Month	Year
Oil Bergamot	\$4.75	\$4.85	\$4.60	\$7.00
Oil Citronella, Ceylon	.65	.65	.60	.51
Oil Cloves	3.90	3.90	3.60	3.25
Oil Lavender Flowers	10.75	10.25	9.25	6.00
Oil Lemon	1.45	1.40	1.20	1.85
Oil Peppermint	8.00	8.00	7.75	5.80
Oil Sandalwood E. I	10.75	10.50	10.50	13.25
Oil Sassafras, Artif	.85	.85	.78	.50
Benzaldehyde, U.S.P	1.50	1.50	1.25	5,60
Coumarin	8.00	8.25	8.00	15.00
Eucalyptol		1.50	1.40	1.30
Methyl Salicylate	.80	.75	.60	1.00
Vanillin	1.00	1.00	.77	.88
Thymol	12.50	12.50	7.25	13.50
Menthol	12.75	12.75	9.75	7.20

The arrival of inventory time among a great many of the large essential oil consumers has been noticeable here during the past week. Although business has not been exactly slow, the condition is directly reflected in a somewhat reduced volume of orders. Business, however, is exceptionally brisk for this period of the year and is taken as an indication that trading over the coming year will see the greatest expansion which the industry has experienced for many years past. While some consumers stopped buying through the holiday period, others have been continuously active and have not retired from the market at all.

There have been further advances in both West Indian and Sicilian oils of orange this week. Following a stronger movement in primary markets, oil of lemon is higher. A jump in the price of oil of sandalwood is the reflection of advanced production costs in the East Indies. Manufacturers have advanced methyl salicylate. Several houses have raised their prices for U. S. P. oil of lavender flowers. A weaker market in Sicily has sent oil of bergamot quotations lower here. Another sharp reduction has been made in caraway oil. Oil of coriander has been marked down again this week. Oleoresin of malefern is lower. Coumarin is in better supply and easier.

Essential Oils

Oil Anise—Prices are firmly maintained without change from the quotations of last week. Brokers are obtaining stocks at \$1.50 a pound for good-sized lots. Leading essential oil houses quote \$1.60 a pound inside, while some are asking \$1.65 and \$1.70.

Oil of Bay—Oil of bay, while in small supply, has quieted down, and demand is not heavy. The price is steady without change, however, at previously noted levels—\$5.00@\$5.25 a pound. Large quantities of bay rum are moving in the trade at \$3.20 per gallon.

Oil Bergamot—On cabled advices that the market for oil of bergamot is easier in Sicily, dealers here have reduced their prices somewhat. Inside quotations name as low as \$4.75 a pound on the spot, while some houses are still asking \$5.00 for their goods. Demand here has not been exceptionally heavy of late.

Oil Cajuput—This item is quiet without change at 85c@90c a pound still ruling for the native. U. S. P. oil is quoted anywhere from \$1.00 up to \$1.25.

Oil Camphor—An arrival of 8,000 cases of Japanese camphor oil from Kobe last week has not affected the price as yet. For white oil, the price here is 27c@28c a pound. Sassafrassy oil is quoted at 12c@14c.

Oil Caraway—A further sharp reduction in the price of oil of caraway has been noted this week. The improvement in supplies from seed at a greatly reduced figure is responsible for the cut. Dealers here now name an inside price of \$4.75 a pound for rectified oil. Up to \$5.00 a pound is being asked in some quarters and slightly higher figures for jobbing lots.

Oil Cassia—Technical oil of cassia is still quoted at any figure between \$2.25 and \$2.45 a pound, according to quality and seller. The \$2,35 price is about representative of the market. For lead-free oil, \$2.45@\$2.55 a pound is still named. U. S. P., rectified is obtainable at \$2.85@\$2.95 a pound.

Oil Cedar Leaf—Supplies of cedar leaf oil are still scarce on the spot, but an improvement of the tight condition of a month or so ago is reported. From \$2.10 up to \$2.40 a pound, according to the dealer, is named for spot goods. About \$2.25 is the general run of prices here. There is a continued scarcity of oil of cedar wood, with little offering at 30c@32c a pound.

Oil Cinnamon—The Ceylon heavy oil is still very scarce at \$28.00 a pound.

Oil Citronella—Good-sized quantities of Ceylon citronella oil are passing into consuming channels at prices noted in the last report. For drums, 65c a pound is quoted, while lesser lots are bringing 66c and up. Java oil is steady and quiet at 95c@\$1.00 a pound.

Oil Cloves—There has been no change in general quotations on this market. Dealers and importers quote \$3.90 a pound for tins. Some brokers give the range of the market at which they can obtain goods as \$3.60@\$3.65. If the statement that there is a considerably larger supply of cloves in primary markets than has been estimated here and that shippers are holding back, is true, the future should see a lower price for cil of cloves. The spot price of the spice is easy.

Oil Coriander—There has been a further reduction in the price of coriander oil on a new offering. The price named here is now \$50 a pound.

Oil Cubebs—Stocks are very meagre on the spot, and prices are firm. Inside seems to be \$9.00 a pound for U. S. P. oil, with holders asking all the way up to \$9.75.

Oil Eucalyptus—There is still very little Australian eucalyptus being offered here. The limited stocks are strongly held at \$1.00 a pound. For jobbing quantities, \$1.05 and higher is asked.

Oil Juniper Bersies.—The market for oil of juniper berries is quiet with little demand. The range over which prices for spot goods are quoted continues rather wide. Down as low at \$6.00 a pound is heard, while several leading dealers maintain that their price is \$8.00 for rectified oil. The product is in a weak position just now, and future developments are problematical.

Oil Lavender Flowers—The scarcity of stocks here is still in effect, and higher prices are being demanded in some quarters. Inside for genuine U. S. P. oil is apparently \$10.50 a pound, with some holders asking \$11.00 and even up to \$11.50. Spike is strong at \$2.00 a pound.

Oil Lemon—A bullish market in Sicily is reflected in higher spot quotations here for oil of lemon. As high as \$1.60 a pound is named by leading dealers, who give \$1.50 as inside for large quantity orders. Sellers at \$1.45 are reported to have withdrawn the price. The market is very firm and tending upward. Quotations from abroad for forward delivery are noted at an advance.

Oil Orange—Sharp advances in both Sicilian and West Indian sweet oils have been the order of the week. Foth are in active demand, and deep inroads have been made into spot stocks. Additional shipments from primary markets are only available at steadily increasing prices. The real effect of the short fruit crop is beginning to be felt in full force. For Sicilian oil, \$5.00@ \$5.25 a pound is quoted, while the West Indian is named at \$4.25@\$4.50. Bitter is steady but unchanged at \$3.75@\$4.25 as to seller.

Oil Peppermint—The market for oil of peppermint here is very quiet, with little or nothing doing. A few hand-to-mouth orders for natural oil are reported to have gone through at \$8.25. However, \$8.00 a pound can still be done where there is a buyer. For U. S. P. oil, \$8.50@\$8.75 a pound is the producers' figure. The lot of several thousand pounds of U. S. P. oil offered at \$8.25 some time ago remains unsold.

Oil Sandalwood—Following a jump in the price by producers in primary markets, dealers here have advanced their cuotations for East Indian sandalwood oil. Inside on the spot now seems to be \$10.75, with many holders demanding \$11.00 a pound.

Oil Wintergreen—Artificial is higher at 80c. (See Methyl Salicylate under Aromatic Chemicals.)

Aromatic Chemicals

Coumarin—Owing to a slight improvement in supplies, offerings of coumarin are somewhat freer, and the price is a trifle easier at \$7.75@\$8.00 a pound.

Menthol—There has been no new development in the menthol situation this week. Reports indicate continued strong markets in both Japan and London, with prices considerably higher than New York. Importations were noted last week of 125 cases from Kobe and Yokohama for the account of strong holders here. Prices are unchanged and difficult to determine, owing to the dearth of buying. The last quotations heard, named \$12.50@\$12.75 a pound for cases on spot.

Methyl Salicylate—Increased cost of manufacture, in view of the present scarcity and high price of wood alcohol, has caused an advance by manufacturers in the quotations for methyl salicylate this week. Hundred-pound lots are now quoted on a basis of 80c per pound.

Safrol—A recent importation of 60 drums of safrol and 8,000 cases of camphor oil from Kobe may relieve the shortage here with a lower price in the future.

Samples of flavoring extracts, essences and other preparations are being collected in Baltimore and forwarded to the testing laboratory at Washington for examination as to whether they can be used for beverage purposes and are in conflict with the prohibition amendment. The samples are being collected by Elmer A. Forbes, in charge of prohibition at the Internal Revenue Bureau in Baltimore, and sent to Dr. A. B. Adams, head of the testing bureau. One of the things to be established by the tests is whether the preparations contain wood alcohol.

WHY WOOD ALCOHOL IS FATAL

Dr. Reid Hunt, a leading American authority on the effects of alcohol, the head of the Department of Pharmacology of the Medical School of Harvard University, formerly of Johns Hopkins, and for several years chief of the Division of Pharmacology of the United States Health Service, has prepared a bulletin on wood alcohol, at the request of the American Chemical Society.

"Wood alcohol," writes Dr. Hunt, "has become known as the American poison on account of the frequency with which cases of poisoning have been traced to it in the United States. Despite this fact, there is still a lack of appreciation of its dangers and of an understanding of its nature. It cannot be too strongly emphasized that there is not a single property of wood alcohol, except its poisonous effects, by which anyone but a chemist can distinguish between purified wood and ordinary or 'grain' alcohol. The appearance, odor and taste of the two are so strikingly alike that even chemists who have had much experience with them are unable by these properties to distinguish be-tween them with certainty. The difficulty is, of course, greatly increased when essences, flavors or coloring matters are added, as is the case in the spurious drinks now being offered for sale.

"Pharmacologists, moreover, from experiments on dogs, had, years before, shown that the action of wood alcohol upon the animal organism is fundamentally different from that of ordinary alcohol. This difference may be briefly summarized. When ordinary alcohol is taken into the body it is rapidly converted into water and carbonic acid gas which are harmless substances, always present in the body, and any excess of which is promptly eliminated by the kidneys and lungs. Wood alcohol, on the other hand, instead of being changed into harmless substances which are easily eliminated remains in the body as such for a considerable time and is then slowly converted into another poisonformic acid-the acid which is found in ants. These poisons and perhaps a third formed from the wood alcohol, formaldehyde, attack the brain and other organs and cause death or blindness.

"Poisonousness is an inherent quality of wood alcohol," continued Dr. Hunt. "It is as impossible to prepare non-poisonous wood alcohol as it is to prepare non-poisonous prussic acid.

"Individuals vary considerably in their susceptibility to wood alcohol; some die or become blind from amounts which seem to do no harm to others. This is true, however, of all poisons. Death or blindness has resulted from two teaspoonfuls and from one or two tablespoonfuls of the poison. Sixty to seventy-five per cent og those taking four ounces, that is a quarter of a pint or half a 'glassful,' have died or become permanently blind."

The will of Charles A. Webb, of A. L. Webb & Sons, Inc., Baltimore, who died Dec. 20, was filed for probate in the Orphans' Court of Baltimore Dec. 31. It leaves the entire estate in trust for the widow, who is to get the income for life. Upon her death the income is to be paid to the children of Mr. Webb, and upon their death the principal is to be divided among the descendants. Mrs. Webb bonded in the sum of \$500,000, and the Mercantile Trust and Deposit Company, the trustee, for \$750,000.

Lord Leverhulme, head of the Port Sunlight Soap Works, of England, and whose plant at Cambridge, Mass., is conducted under the name of Lever Brothers Co., is paying the San Francisco office of the firm a visit.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, Pages 34 and 36

CONTRACT PRICES ON HEAVY CHEMICALS

Deliveries During 1920 Bring Good Rates—Spot Market Bare of Many Materials—Strong Demand for Suiphuric Acid—Less Activity in Caustic Soda and Ammonium Sulphate

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Aluminum Hydrate, 2c lb. Salt Cake, \$2 ton
Declined

Potassium Chlorate, 3c fb. Sodium Bichromate, 3c fb. Sodium Chlorate, 2c fb.

Trend of th	e Marke	et		
	Today	Last Week	Last Month	Last
Acetic Acid, Glacial	22.00	\$.1234 22.00	\$.1234 18.00	\$.195 28.00
Bleaching Powder 100 ths. Copper Sulphate 100 tos.	8.00	8.00	2.50 8.25 .28	2.75 9.50 .74
Potash, Caustic	.14	2.00	2.00	2.50
Caustic Soda, 76 p.c100 fbs. Potassium Bichromate	4.20 27	4.20	3.30	4.30

Trading in heavy chemicals fell off slightly. Inquiries continue to come forward in good volume from both domestic and export buyers, but holders are not in a position to quote. Many of the products which have been in big demand from the Orient for some time are now quoted at levels which are not inviting to buyers. Prices have showed signs of weakening, especially on ammonium sulphate. Offerings of odd lots of caustic soda have been made freely, but buyers were few for early January shipment even at attractive figures. Alums have eased off slightly, being in lighter demand.

The majority of ammonium products are still off the market or confined to limited lots. Price revisions were of little importance. Foreign competition on chlorate of soda and potash has forced American producers to make concessions. Salt cake and nitre cake have been active and advances were noted on salt cake, with offerings very light. Sodium bichromate is lower. Copper sulphate has stiffened slightly and holders look for an advance shortly. The acid market is unchanged, supplies being plentiful on all acids, with the exception of sulphuric.

Acid, Acetic—11½c per pound is the price of glacial on the spot market. Certain makers are asking 14c on new business for 1920. The demand continues steady. with supplies offered freely. 9½@9½c is quoted for 80 p.c. pure; 8½c@8¾c for the redistilled, and 8c for the commercial, containers inclusive. The other percentages are quoted on the basis of \$3.75 for the 28 p.c.

Acid, Muriatic—Heavy buying continues, but has very little effect upon prices as supplies are offered quite freely. About \$1.50 is quoted on the 20-degree acid in tank-car lots, sellers' works. Carboys are held at \$1.65@\$1.75 per hundred pounds, depending upon the holder. The 18-degree is 1/4c lower, and the 22-degree 1/4c higher per pound.

Acid, Nitric—Buying is steady and prices show strength at 5c@54c for the 36-degree; 64c@64c for the 38-degree; 64c@7c for the 40-degree; and 74c@74c per pound for the 42-degree acid in carboys.

Acid, Sulphuric—Sellers are asking \$22 per ton for tank-car lots at works for the 66-degree acid. However,

contracts continue to be closed at \$20 and this figure appears to be about the market price. Spot goods in the hands of jobbers are held at \$25, but very little material is available except on contract business. Contract at \$14 is possible on the 60-degree acid, with small lots bringing from \$15@\$16, depending upon quantity. Oleum is strong at \$23@\$25 per ton on large contracts at sellers' works. The demand appears to be centered on the 66-degree acid.

Alums—The demand eased up slightly during the interval, without weakening the price, probably due to the stringency of supplies, especially on the ammonium grades. Production is still being sold heavily on contract, and the goods on the open market are confined to odd lots: This is especially true of powdered ammonium. Lump is quoted at 4c@4½c per pound; powdered 4½@4¾c per pound, and ground, which is in least demand, 4½c@4½c per pound. Chrome ammonium is unchanged at 15c, but production is sold ahead. U. S. P. potash lump is firm at 8c in most quarters.

Aluminum Sulphate—Inquiries are heavy, but are mostly "rainbows" according to reports. Supplies are not plentiful, and quotations are firm at \$1.75 for the commercial, and \$2.75 for the iron-free material.

Aluminum Hydrate—Prices are slightly higher, at 18c for the light, and 9½c per pound for the heavy.

Ammonia Water—Supplies are off the market, and are under very heavy request. The 26-degree is quoted at 834c in large-lot business. Carboys are held at 1034c per pound.

Ammonium Sulphate—The Japanese have temporarily dropped out of the market, and prices have eased off slightly. Very little spot action was reported and holders were naming \$7.05@\$7.10 per hundred pounds fa.s. New York.

Ammonium Muriate—White granular continues in strong request and is firm at 15c@16c per pound, with figures ½c higher in some directions. Lump in casks can be obtained at 23c@24c and about 25c for jobbing quantities. Grey material remains at 12½c per pound.

Arsenic—Spot white arsenic is being held at 10½@11c per pound. Trading is restricted owing to the small supplies. Production continues heavy on contract. Red is quiet and fairly firm at 22c per pound.

Barium Chloride—The stringency is still felt on both the domestic and imported products, which are held at a figure close to \$100 a ton. Requirements are large, with business curtailed, because of scarcity.

Bleaching Powder—There is practically nothing available for spot or near-by delivery. Manufacturers are not quoting on early January business and many are sold ahead over the first few months of the year. The domestic price is \$2.50@\$3.00 per hundred pounds, sellers' works. The export price is nominal at \$3.35 f. a. s.

Copper Sulphate—Fearing advances on the sulphate, following recent advances on the metal, consumers have been rather active. Owing to the recent increase in the price of the metal, a slight advance on the sulphate market in the near future is possible. Car-lots of the 99 p.c. large crystals are still held at \$8@\$8.50 per hundred pounds, with second hands quoting a shade under this figure.

Calcium—Offerings for spot delivery have been made at 4% c per pound. The export inquiry is active, but domestic business is steady on contract.

Copperas—The market continues firm on contract, with slightly lower levels heard on spot goods. From \$1.10@\$1.20 per hundred pounds f.o.b. works, is named by the producers.

Lead Acetate—Contract business continues to absorb most of the supply. The market is strong and prices are holding firm at 14c for the white crystals.

Potash, Caustic—Prices are very stiff at 28c@32c per pound, owing to the heavy demand and scarcity of crude materials. Offerings are light, with most producers tied-up on futures.

Potassium Bichromate—Spot goods in small quantities are held at 27c in quarters. However, higher prices are being asked.

Potassium Chlorate—Foreign competition has forced the price down to 15c per pound on both the powdered and crystals.

Potassium Permanganate—Stocks are still scarce and under strong call for export at 68c@70c per pound.

Potassium Prussiate—Arrival of imported stocks has slightly eased up the price, which is now 33c per pound. The demand is quiet. Red is steady at 95c@\$1.00 per pound.

Soda Ash—The export price is still \$1.90 less five per cent f.a.s., with offerings very light for prompt shipment. The domestic market is active and decidedly firm on contract at \$1.62½, basis 48 p.c., works.

Soda, Caustic—Offerings on odd lots for early January shipment from works have been made at \$4.15@ \$4.25 per hundred pounds f.a.s. this port, depending upon the "Make." Manufacturers are sold-up and are quoting domestic business at \$3.00@\$3.20 per hundred pounds, basis 60, sellers' works.

Sodium Bichromate—The price has dropped to about 19c per pound. Very little action is reported on the spot market, buyers anticipating a further decline.

Sodium Prussiate—Sales of 5@10-ton lots were reported at 26½c per pound. The available stocks on the open market are light with offerings close to 26c per pound.

Sodium Chlorate—Producers have lowered the price to 10c per pound. Probably the decline is due to the fear of foreign competition.

Salt Cake—Sales were put through during the week at \$15 a ton sellers' works. Very little material is being offered. At the close the quotation was \$17.

Nitre Cake—Supplies are depleted and holders are asking fancy prices. However, a few hundred tons are still available over the first six months at \$4.50 per ton.

CHEMICAL SOCIETY ELECTS OFFICERS

New officers of the New York Section of the American Chemical Society elected at the December meeting

Chairman, Ralph H. McKee; vice-chairman, John E. Teeple; secretary and treasurer, Herbert G. Sidebottom. Executive Committee—D. W. Jayne, C. H. Herty, F. J. Metzger, K. G. MacKenzie.

Councillors—Elwood Hendrick, R. H. McKee, D. W. Jayne, A. C. Langmuir, W. P. Cohoe, J. M. Matthews, David Wesson, H. C. Sherman, J. C. Olsen, G. W. Thompson, Charles Baskerville, T. L. Briggs, H. E. Hill, J. M. Nelson, F. E. Dodge, K. C. MacKenzie, R. P. Calvert, L. H. Cone, J. R. M. Klotz, F. J. Metzger, H. R. Moody.

Industrial Chemical Notes

The H. H. Rosenthal Co., New York, dealers in chemicals, drugs and oils, have engaged the services of William C. Neubeck, formerly with Thos. M. Curtius.

The William H. Nichols Medal has been awarded to Dr. Irving Langmuir for an article on "The Arrangement of Electrons in Atoms and Molecules."

Brile and Ratner, Inc., have opened offices at 115 Broadway, to deal in metals and chemicals. Mr. Brile is a specialist in metals and Mr. Ratner in chemicals.

E. C. McKelvy, of the Bureau of Standards, Washington, was severely burned by an explosion while working on an apparatus to determine the freezing point of ammonia, and died in a hospital shortly afterward.

The first cargo brought to Boston from Germany in more than five years arrived when the steamer West Harlan, Captain Smelenberg, reached there from Hamburg, with 5,000 tons of potash in bags and in bulk to be used in fertilizer.

Secretary of War Baker told the House Committee investigating war expenditures that the Government can dispose of its hydro-electric site at Mussel Shoals, Ala., along with its nitrate plant, at any time it sees fit, to the American Cynamid Co. Mr. Baker was quizzed at length as to the Mussel Shoals project, which he declared was the best hydro-electric site he knew of in this country.

The officers and directors of the American Cyanamid Company are defendants in two suits filed at White Plains by Charles H. Baker, a large stockholder and one of the organizers of the company, which have as their object the forcing of a return of moneys paid out to officers and managers of the company as bonuses in the last two years and a distribution of some of the large earnings to the common stockholders.

The National Oxygen and Machine Co.'s plant at Detroit, Mich., is practically completed. The Detroit plant is the largest of a chain of plants owned and operated by this company throughout the United States, in which is manufactured oxygen and hydrogen by the electrolitic decomposition of distilled water. Other plants of the company are located in Chicago, New York, Erie, Pa., Hartford, Conn., Harrison, N. J., and Muskegon.

Charles A. Anderson & Co., New York, say of the chemical markets: "The holiday spirit showed its effect upon the chemical market early in the week, and trading remained stagnant for the most part. One feature, however, was the advance in the price of formaldehyde, which closed at 35 to 36c per pound. Caustic soda remains in active demand; limited supplies and the sold-up condition of producers has strengthcaed this item materially."

The explosion of 75,000 pounds of powder at the Hagley Point plant of the du Pont Powder. Co., near Wilmington, Del., shook buildings for many miles, and killed five employees. The first shock was at \$55 a.m., |an 2, and was light, but the second, which followed a few seconds later, was felt in West Philadelphia, 30 miles from the scene and many windows were broken. The village of Henry Clay, about one-quarter of a mile from the yard, suffered heavily.

The Color and Dyestuff Market

Current Spot Quotations of Colors, Dyestuffs, etc., Pages 36 and 48

STRINGENCY IN INTERMEDIATES

Production Sold Far Ahead for Domestic Use, and Exporters Await Opportunity to Buy for Shipment Abroad—Aniline Derivatives Extremely Scarce

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Betanaphthol, Spot, &c tb. Hematine, 2c tb.

Logwood, Sticks, \$10 ton Logwood, Extracts, 2c fb.

Declined No Declines

Trend of the Market

	Today	Last Week	Last Month	Last
*Benzol, C. Pgal.	\$.27	8.27	\$.25	\$.24
Naphthalene, flaketb.	.07	.07	.06	.09
Phenoltb.	.12	.12	.12	.44
Xylol, puregal.	.40	.40	.40	.45
*Toluol, puregal.	.28	.28	.26	1.50
Aniline Oiltb.	*.32	.32	.30	.28
Benzaldehydetb.	.65	.65	.65	3.75
Betanaphthol, dist	.55	.50	.50	.65
Paranitraniline	1.15	1.15	1.00	1.70
o-Toluidineb.	.25	.25	.25	1.00

Although new producers are entering the field to make intermediates, and many of the large manufacturers intend to increase their production, the present stringency is expected to last well into 1920, if not over the entire year. Consuming requirements continue to broaden, and as production is largely sold ahead on many of the important dye bases, no drop in prices can be expected. Furthermore, exporters are anxiously awaiting the opportunity of buying various intermediates, so that any surplus will, without doubt, find a ready outlet through foreign channels. With the increasing costs of labor and raw materials, prices on many items are likely to be higher during the early part of the present year, but will in all probability drop slightly about the middle of the year.

Aniline derivatives and many of the acids are still extremely scarce and under heavy request. Aniline oil is slightly easier in supply for the time being, but gives no indication of receding in price.

The crudes are unchanged. Benzol is still in strong request, with few buyers, Toluol on the open market is high, depending upon the seller, lots available for prompt shipment being scattered.

Hematine and logwood are the two strong features of the extract market. Both are higher, following heavy buying and increasing cost of the wood. Tanning materials are quiet. Annatto has fallen in price, owing to the heavy accumulation of stocks.

The color market closed the year under conditions satisfactory to producers, but considerable anxiety is manifested over the outcome of the licensing plan. Domestic color manufacturers are tied up over a part of 1920 on many of the important colors, which are off the spot market at the present time. The coming year should, prove to be the banner year for the industry, providing the protection needed is granted promptly.

Acid, H—The price is nothinal at \$1.75@\$2.00 per pound. Holders are not offering spot or near-by material, and producers are under heavy contract until well into the spring.

Acid, Sulphanilic—Spot lots aggregating twenty-five or thirty tons of the refined acid were offered during the week at 30c per pound. About 37c is the price for spot goods and 25c on contract.

Aniline Oil—Supplies are slightly easier, probably due to the expiration of contracts on the first of the year. The market, as a whole, is tied up on futures, and manufacturers are holding prices firm. Very little action is reported on the open market, the supplies being controlled by first hands. Quotations are 33c@ 35c per pound.

Aniline Salt—Firm bids at 42c@43c per pound on ton lots for January delivery were turned down during the week because of the inability to obtain the product.

Anthraquinone—About \$4.00 a pound is quoted on the 98 p. c. product, but some holders are asking up to \$6.

Alphanaphthylamine—The spot market is without offerings, and production is largely sold ahead on contract. Quotations are firm at 35c per pound for domestic delivery.

Betanaphthol—Supplies for spot or near-by shipment are still stringent. Spot goods are confined to one or two-ton lots, which are held at 55c ex-warehouse. The demand is heavy on contract at about 44c per pound.

Benzidine—Base material is selling around \$1.20@ \$1.30 per pound. The demand is keen, and supplies are light for prompt shipment, with most producers under contract. The sulphate is quiet at \$1.00 as the inside figure.

Diethylaniline—Very little action is reported, with supplies in good quantity at \$1.35 per pound.

Dimethylaniline—The open market is practically bare and under heavy inquiry for January delivery. Sales have passed at 85c, but 90c per pound is asked in quarters. Manufacturers are tied up on futures, with some naming 65c for April delivery.

Monoethylaniline-Offerings are limited, and holders are asking around \$2.15 per pound.

Paranitraniline—One odd lot aggregating about 150 tons was sold during the week at 90c per pound. Prices are firm at \$1.15, with offerings limited on the open market for spot or prompt shipment.

Phthalic Anhydride—The demand is steady, with offerings plentiful around 75c@90c per pound.

Orthotoluidine—Consumers have been active, and deep inroads have been made into supplies. The market is firmer, and prices show strength at 25c per pound.

Paratoluidine—Holders of small supplies are asking from \$2.00@\$2.25 per pound. Contracts are being made at about \$1.75.

Coal-Tar Crudes

Benzol—First hands continue in control of the market. The spot market is bare. The 100 p. c. materiai in tank cars is held at 27c per gallon. In drums, it is quoted up to 32c. The 90 p. c. benzol is 1c lower in tanks and drums.

Cresylic Acid—Very light stocks are reported. Demands are heavy, and quotations are firm at 75c@80c for the 95-97 p. c.; 60c for the 50 p. c., and 40c per gallon for the 25 p. c.

Naphthalene—Although production is largely solid ahead on prime flakes and prices are strong at 7c per pound, one lot was closed during the week at 6c. Offerings are limited. Ball material is steady at 8½c@ 9½c per pound.

Phenol—Bids on 20-ton lots for export at 19c per pound were turned down during the week. Inquiries were heavy for foreign shipment, with sellers asking 20c f. a. s. this port. Very little material is available for export. Domestic prices are unchanged at 12c@ 17c per pound.

Toluol—Available supplies for prompt shipment are scattered. Production is still light, and consuming demands are sufficient to absorb the quantities that are reaching the open market. Five and ten-drum lots were obtainable at the close at 33c. The contract price is holding at 28c for tank cars and up to 32c for drum lots.

Dye Bases and Dyewoods

Annatto-Offerings at 31/2c have been made. The market is very weak, with no buyers.

Archil—The double is higher, being under heavy buying at 20c@25c per pound. The market is still in short supply, and triple is held at 19c@20c, and concentrated at 20c@26c per pound.

Cochineal—Sales have fallen off, and the market is quiet. Quotations are 60c@62c for the grey black; 65c for the rosy black, and 67c for the silver.

Cutch—Trading is light at 16c@18c for the Rangoon; 12c@14c for the liquid, and 14c@15c for the tablet.

Cudbear—The demand and supply are fair at 22c per pound.

Fustic—Sticks are held at \$30@\$35 per ton, probably owing to the high freight rates from primary points, as the demand for the extract is very light. Solid extract is quoted at 22c@27c per pound; crystals of high grade at 30c@40c; 42-degree extract at 14c@16½c, and 51-degree liquid at 15c@19c per pound.

Hematine—Prices are nominal and higher at 16c@17c per pound for the 51-degree extract and 35c@40c for the 100 p. c. crystals.

Logwood—Sticks are higher, being quoted at \$50@\$60 a ton delivered. Shipments from primary points are light, following lack of shipping space and difficulty in obtaining the wood, which is held at \$38 at point of shipment. Sellers of the extract have advanced the price, now asking 25c for the solid; 30c for the crystals, and 16c@18c for the 51-degree twaddle.

Quercitron—Advances are reported on both types, which are in good demand at 7½c@8½c for the 51-degree and 14c@18c for the solid.

WOULD PROTECT DYE INDUSTRY

At the meeting of the American Institute of Chemical Engineers at Savannah, Ga., the following resolution was unanimously adopted:

"The American Institute of Chemical Engineers in convention assembled at Savannah, Ga., recognizing the importance of protecting the coal-tar industry and the dye industry in particular, not only to the industrial interests of the country in general, but also to its public health and the protection of the country in time of war, wishes to express itself in the following resolution:

"That the American Institute of Chemical Engineers urges upon the United States Senate the importance of enacting the Longworth bill embodying the licensing plan protecting both the manufacturer and user of dyes."

Dyestuff Notes

The Commonwealth Color & Chemical Co., Brooklyn, N. Y., has prepared a color card showing the principal acid colors they manufacture.

Jacob Widder, treasurer of the Widder Dye & Chemical Co., Brooklyn, N. Y., sailed for Europe on the Mauretania on December 30. He expects to be gone about two months.

Leo Schwalb, of Cleveland, Ohio, has bought a factory in Newark, N. J., for the manufacture of dyes and chemicals. Abraham Jacobson, a chemical engineer, is to manage the plant.

The arrangement by which Aniline Dyes and Chemicals, Inc., New York, has had the exclusive sale of the aniline colors and intermediates manufactured by the Ault & Wiborg Co. expired by mutual consent on Dec. 31.

Notice of organization has been filed by the Regal Color & Chemical Co., Providence, R. I., to operate at 357 Westminster street, for the production of chemicals, colors, etc. James C. Carmack, 124 Winter street, Woonsocket, heads the company.

The National Aniline and Chemical Co., Inc., announces the production of a new basic yellow known as Phosphine G N. This color possesses excellent levelling properties and will find extensive use in dyeing leather. It forms a part of many basic mixtures for browns and tans on leather.

E. I. du Pont de Nemours & Co. have filed with the Federal Trade Commission a denial of the charges of unfair methods of competition and the use of "tying" contracts. The company denies that it has adopted the practice of giving gratuities to miners as an inducement to influence them to refuse to use competitors' powder. The company also specifically denies the allegation that it fomented strikes in mines where its powder was not used.

New trade names have arisen for vat dyes in England, now that several domestic companies are manufacturing them, according to advice from an American dyestuff man who recently returned from a trip to that country. The vat dyes of British Dyes, Ltd., are called Chloranthrene colors; those of Levinstein, Ltd., are called Duranthrene colors; those of L. B. Holliday & Co. are called Hydranthrene colors; while Scottish Dyes, Ltd., has affixed the name of Caledon to their products.

Manchester, Eng., advices dated December 13 say of tar products: "Carbolic acid is not very firm and the price quoted is 2s 3d to 2s 4d per gallon for crude 60s naked on rails. It is reported that much higher prices than this have been offered in some cases. Crystal is now very much stronger and makers are unable to sell for delivery much before March. The prices seem to vary from 9d to 10d per pound. It is said that the Government has sold the whole of its stock of depreciated crystal to a firm of merchants at 5½d per pound. The danger of the market, however, lies in the fact that but for the Japanese demand there would be no sufficient outlet, and if this demand should suddenly cease the market might collapse with dramatic suddenness. Creosote is very firm at about 6½d to 6½d per gallon and more for suitable fuel qualities. Benzol is in a doubtful position, as prices for crude remain very high and it does not pay to refine.

The Oil Market

Current Spot Quotations of Oils, Page 38; Tallow, Greases, etc., Page 39

VEGETABLE OILS GETTING SCARCE

Prices Going Up on the Pacific Coast and in the Far East—Linseed Oil Unchanged, With Trading Light, Owing to the Weak Market for Domestic and Argentine Seed

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Cottonseed Oil, Summer Yellow, Soya Bean Oil, Tanks, Coast, ic 3/4c lb.

Declined
No Declines

Trend of the Market

	Today	Last Week	Last Month	
Cod Oil, N. F	\$1.14	\$1.14	\$1.15	\$1.55
Degras, Amer. bbls		.07	.071/2	.24
Lard, No. 1	1.43	1.33	1.35	1.50
Menhaden, South, crd*	,95	.95	.95	1.20
Neatsfoot, 20 deg. c.t	2.25	2.25	2.25	3.19
Red Oll, Crude		.16	.17	.171/2
Stearic Acid, T. P	.30	.30	.30	.25
Coconut, Ceylon, dom. bbls	.1914	.1956	.171/2	.171/2
Cottonseed, crude, tanks*		.191/2	1.72	.173/2
Linseed cars, bbls		1.87	1.72	1.57
Olive, denatured		2.50	2.50	4.25
Peanut, refined		.27	.27	.221/2
Soya Bean, bbls *F. O. B. Mills		.18%	.18	.18

Holders of vegetable oils are disinclined to make offerings, owing to the high prices on the Coast and in the Far East, and the fact that many of the oils are extremely scarce for prompt delivery. Linseed remains unchanged, with trading light, in anticipation of a decline, owing to the weak market for domestic and Argentine seed. Animal oils are quiet, with slight advances reported, following the stronger position of tallow. Many of the oils are scarce. Fish oils are very quiet, with prices unchanged from those of last report.

Linseed Oil—The market closed very inactive. Not a great deal of buying is expected until about the middle of January. The recent weakening of the market for domestic and Argentine seed is expected to delay the advance that was expected. Present prices are firm at \$1.77° per gallon for January-March in car lots; \$1.72 for April, and \$1.62 for May-September. At Duluth, flaxseed was held at \$4.68 and May at \$4.50, with July at \$4.47. At Winnipeg, cash seed was quoted at \$4.78, with May at \$4.83 and July at \$4.80. Buenos Aires closed at \$2.37½.

Cottonseed Oil—Prices are unchanged, except for summer prime, which is higher. Buyers are out of the market, and trading during the week was at a minimum. Stocks are still in fair supply for spot or nearby shipment at 19½c@20c in tanks f. o. b. mills; 21c@22c for the prime yellow in barrels, and 23¾c@25c per pound for the winter yellow.

Coconut Oil—Supplies are light and under heavy inquiry. Offerings are limited. Bids at 19c for crude Manila were turned down, as holders refuse to sell under 19½c. Twenty thousand cases of Cochin were opened to bids during the week, and the lot was reported as closed out at a figure around 20c. Refined Manila in barrels was offered at 21½c@22c spot New York. Domestic Ceylon in barrels is held in most directions at 19¼c@19½c, with tanks at 19c@19½c. Cochin is quoted at 20c@20½c in barrels and 19¼c@

20c in tanks. Manila on the Coast in tanks is held at 181/2c@183/4c per pound. The market closed very firm.

China Wood Oil—There is a fairly good inquiry, and sales for January, February and March were reported. The market is firm at the recent advance to 2334c@ 24c per pound on spot goods in barrel lots.

Castor Oil—Prices have failed to strengthen, owing to the heavy supply of raw materials and lack of buyers. Twenty cents is named as the inside figure on No. 1 in barrels and 21c per pound for cases.

Corn Oil—Refined is held at 23½c in barrels, with crude in tanks at 19c. Supplies are limited, as is the demand at the present time, with shading possible.

Olive Oil—Quotations are firm at unchanged levels of \$2.50@\$2.60 a gallon for the denatured; \$3.10@\$3.20 for the edible, and 19¼c@19½c per pound for foots. Trading was very quiet during the week. Stocks are in fair supply.

Peanut Oil—The oil is in light supply on spot and is under good inquiry. Holders advanced the price of the refined oil to 28c per pound, as the inside figure; 23c@ 24c is still named on domestic crude at the mill, and 23c@23½c per pound for Oriental in tanks on the Coast.

Palm Oil—Genuine Lagos can be obtained at 16¼c @17c, with Niger at 15¼c@16½c. Supplies of Lagos are only fair, but stocks of Niger are heavy. Benin is nominal at 17c per pound.

Sesame Oil—Domestic edible is quoted nominally at \$2.50 per gallon. Stocks are depleted.

Soya Bean Oil—Crude soya bean oil on the Coast is decidedly strong, being held at 17c, as the inside figure, with 17½c named on January and 17½c on February-March shipments. Spot goods in barrels are very strong at 18½c@18¾c per pound.

Animal Oils

Lard Oils—Following the recent advance in the price of tallow, holders of lard oil are now naming higher prices. The demand has been active of late. Quo tations are \$1.85 for prime winter strained; \$1.75 for off prime; \$1.50 for extra No. 1; \$1.43 for No. 1, and \$1.39 for No. 2 per gallon.

Neats-foot Oil—Prices are unchanged at \$2.25 for the 20-degree; \$2.05 for the 39-degree cold test; \$1.90 for the 40-degree cold test; \$1.60 for the dark, and \$1.75 per gallon for the prime.

Degras Oil—Consuming requirements are still light, with quotations at 7c@71/4c for the American; 71/4c@ 81/4c for the English, and 14c@18c per pound for the neutral

Red Oil-Prices are firm at 16c@161/2c.

Fish Oils

Cod Oil—Buying is limited, with prices holding at \$1.12@\$1.14 for the Newfoundland oil; \$1.10@\$1.12 for domestic prime by the gallon, and \$108.00 for Norwegian in barrel lots.

Menhaden—Crude menhaden is still held at 90c@\$1.05 f. o. b. Baltimore. Light strained is quiet at \$1.18 per gallon; yellow bleached at \$1.20 per gallon, and white winter bleached at \$1.22 per pound. Very little action is reported.

Sperm Oil—Offerings were made on the spot market at \$1.80 per gallon for the 38-degree. The market is quiet, with few buyers.

GERMANY'S CONSUMPTION OF OILS

well and day

Various estimates have been given of Germany's prewar consumption of oils and fats; the latest is 1,900,000 tons, and as this is the estimate of Dr. Fahrion—a noted authority on the subject and editor of the principal German journal dealing with oils, fats, soaps, etc., says the "London Economist," it may be taken as fairly trustworthy. Dr. Fahrion says that this grand total is made up of 600,000 tons of vegetable oils and fats and 1,300,000 tons animal fats; and, again, 1,500,000 tons was used for food and 400,000 tons for industrial purposes.

With the exception of 200,000 tons, mostly imported from America, the animal fats were supplied by 21,000,000 head of cattle (sheep presumably included) and 25,000,000 pigs, yielding 500,000 tons of lard, 200,000 tons tallow (beef and mutton) and 400,000 tons butter. Of the vegetable oils only about 20,000 tons were obtained from home-grown oilseeds. A certain amount of vegetable oils was imported, but, broadly speaking, it may be said that the whole of the balance of 580,000 tons was milled in Germany from imported oilseeds and nuts. A considerable amount of vegetable oil was, of course, exported.

The German linoleum, stearin, soap, and candle industries were on a considerable scale before the war. About 400,000 tons of linseed were imported, mostly from Argentina, and 25,000 tons of linseed oil were used for linoleum manufacture. Just lately there has been much talk about linseed oil substitutes in the German technical journals, especially for making linoleum and for varnish manufacture. Fahrion, however, is of opinion that these attempts to find a substitute have not been successful, either in Germany or in England, where it was hoped that the linseed-oil fatty acids, produced in the "splitting" of linseed oil for glycerin manufacture, could have been used for linoleum manufacture.

Of the 400,000 tons of fat which, before the war, were used for industrial or nonedible purposes, about 250,000 tons were used for soap making and 6,000 to 8,000 tons for candles. The concentration of the industry in the hands of a few large firms has not proceeded so rapidly in Germany as in England. At the outbreak of war there were 34 large, 85 medium, and 549 small soap works, with a total capital of about 300,000,000 marks. During the war the fat available for soap making was reduced to 18,000 tons per annum, and most of the works had to close. In 1917 the whole industry was brought under the control of one syndicate; it was, in fact, one of the earliest examples of compulsory syndication. The future is uncertain, although it is expected that syndication will reduce the costs of manufacture and of distribution.

Liverpool advices dated December 13 say of oils: "Coconut oil is quiet but steady, Cochin 101s to 102s and Ceylon 99s per cwt. Palm kernel is slow; Liverpool crude 92s per cwt. net naked. Lard oil is quite but steady; English refined 140s for choice down to 110s for low qualities and American extra winter strained 130s per cwt. in barrels. Castor oil is steady; English pharmacy 101s, firsts 98s, and seconds 96s per cwt. in barrels. Rapeoil is quiet but steady; Liverpool refined 111s per cwt. in barrels.

A London report dated Dec. 12 says of rape oil: "Very steady markets were witnessed without quotable price changes. Refined in London being still quoted £110 per ton and crude £105. In Hull, however, crushed spot improved £2 and extracted spot £3 10s, the respective prices being £105 crushed and £102 extracted."

INDIA'S CASTOR OIL INDUSTRY

Government Is Encouraging Planters to Produce Larger Crops—More Than 100,000 Tons of Seeds and a Million Gallons of Oil Formerly Exported Annually

In an effort to encourage the production of the castor plant in India, the Government is circulating facts regarding the uses of the bean and the oil. India's average exports of castor seeds in the five years immediately preceding the war were 113,600 tons a year and exports of the castor oil amounted in previous years to over a million gallons. In 1916-17, exports amounted to 1,723,000 gallons valued at 2,612,000 rupees (a rupee is about 32½ cents American currency). In the same year, India exported castor seed amounting to 1,849,000 owts. and valued at 14,358,000 rupees.

A list of uses for castor oil is given in the "Scientific American" of a recent date and is being copied in Indian publications including "Commerce and Industries" which is explaining to plantation owners the advantages and profits in castor bean cultivation. This publication says:

All this means higher prices and greater profits for those who take to its cultivation. Seeing that it is possible for us to beat down other countries in the markets for castor and looking at the increasing demand for the oil in the future, it is surely worth our while to find out if it would not pay if we bring more waste land under castor.

The greater is the need for such an enquiry as the other uses of castor than that as a lubricant are numerous. There is, in the first place, its use in the various departments of pharmacy. It is a pity that we still import a certain quantity of castor oil for medicinal purposes from the European countries, although in the past few years these imports are being steadily replaced by Indian manufactured oil. But there are other uses for castor oil. It is used to a large extent in the manufacture of substitute or artificial leather, which takes the place of natural leather in upholstering. Secondly, castor oil is an essential component in some artificial rubbers and there are various kinds of celluloid which depend upon this product of the castor bean. Further, it furnishes a very satisfactory coloring for butter; and from it is produced the so-called Turkey-red oil, which is an important factor in the dyeing of textiles and in the treatment of the fabrics. Fifthly, it is largely used in the making of transparent soaps. Again, castor oil yields acids such as sebacic acid which is superior to stearic acid in the manufacture of candles and from it is also obtained caprylic acid which lends itself to the composition of varnishes peculiarly suited to the polishing of all kinds of high-class furniture, carriage bodies, and paintings, and is extensively employed in the preparation of tracing cloth. Castor oil is also used in making waterproof preparations.

The Los Angeles Soap Co., Los Angeles, Cal., is having plans prepared for several reinforced concrete factory buildings.

Imports at San Francisco during the week ending Dec. 27, included the following: On the San Juan from Cristobal, to the Pacific Mail S. S. Co., 106 packages of indigo and 51 packages of henequin; on the Standard Oil steamer Derbyline from Cebu, P. I., 9,700 tons of coconut oil; on the West Cactus to Struthers & Dixon, from Manila, 1,000 bags of sulphur; from Yokohama, 6 packages of antimony; from Hongkong, 5,000 cases of bean oil, 100 packages of wax, 1,330 sacks of bean cake and 220 bags of alum; from Shanghai, 25 cases of camphor, and from Keelung, 86 barrels of peanut oil.

The Foreign Markets

Imports of Drugs, Chemicals, Dyestuffs, etc., Pages 39 and 40

LONDON DRUG MARKET ACTIVE

Shellac, Balsam Peru, Rubber and Lead Products Are Higher—Cream of Tartar Firmer—Tartaric Acid Easier—Menthol Takes a Sudden Drop—Export Business Expanding

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Jan. 6.—The markets for chemicals and drugs opened the New Year with a good volume of business and prices well maintained. There is an increasing demand for American specialties for export, and trade with the Continent is rapidly expanding. Many products are higher, but menthol has taken a sudden drop.

Quotations have been advanced on shellac, rubber, all lead products and balsam Peru.

There is a firmer tone in the market on cream tartar. Tartaric acid is easier. Menthol is lower.

London, Dec. 20 (By Mail).—A very important factor, which will have to be considered more seriously by our manufacturers in the coming year is the enormous advance in coals, wages, intermediates and general charges for docks, transportation and packing, all of which are increasing daily, and are not yet fully allowed for in many existing quotations.

The further appreciation of the United States dollar has been followed by a general upward movement in all United States products on the spot, and a tendency to curtail fresh imports.

Bromides are higher, but second hand holders are still willing sellers below New York recently advanced parity prices.

There is doubtless still some anxiety felt as to future shipments from Germany. The soda and ammonia salts are not, however, coming in from that quarter, and are proportionately higher than potash, which is being imported in fairly moderate quantities. Prices by second hands are: Potash, granulated, 4s 3d per lb.; crystals, 4s 6d per lb.; soda, 3s 9d per lb.; ammonia. 4s 6d per lb.

There has been an unusually heavy demand of late for carbolic acid for export, and manufacturers are fully booked up for several months, in some cases until June. It would appear that the surplus of our Munitions Ministry has long since gone into consumption, and prices have steadily risen until 10 to 10½ d was reached this week for 39-40 ice crystals.

Since advising you last week, a further advance of 9d per lb. for mercurials has taken place, making 1s 3d within the fortnight. Makers' prices are today as follows: Oxide red, 8s 7d per lb.; oxide yellow, 7s 1ld per lb.; perchloride, 5s 8d per lb.; subchloride, calomel, 7s 9d per lb.

Menthol has further advanced during the week by 9s per lb., sales having been made at 67s 6d to 75s.

Shellac continues to advance strongly, owing to the

brisk demand from all countries, and the higher cost of silver and corresponding higher price of the Indian rupee. Over 600s has been paid for T.N. Orange on the spot, and 630s for fine orange with all future positions full up in price, May being 560s to 600s.

Quicksilver has been sold this week at £24 per bottle. The continuous advance weekly since October is mainly accounted for by decreasing stock here and diminishing arrivals and the corresponding advances in mercurials.

MARKET PRICES IN GERMANY

A circular issued by a firm of importers and exporters

in Hamburg says of various products:

Agar-agar—Large orders have cleared the small stocks which were available. Single bales of first quality in strips are offered at 57 marks per kg., cash, ex stations in unoccupied Germany. Supplies lying abroad would command too high a price if imported now, in consequence of the adverse rate of exchange. Camphor—The demand is very great. The first

Camphor—The demand is very great. The first supply of Japanese slabs is expected to arrive in December—a few cases of about 45 kg. net content. Owing to the depreciated currency, the price will be 350 marks per kilo.

Cascara Sagrada—Owing to the high prices now ruling in England, the German market is following suit, and orders cannot be filled under marks 12.75 gross for net.

Menthol—The increase in price which has taken place on the English and American markets has induced speculators in Hamburg to pay even greater attention to this article, always their favorite for this purpose. These people have succeeded in raising the price to marks 650. The collapse, which is eventually bound to take place, will be an interesting event. Recrystalized (Ph.G.V.) has naturally followed the course of the speculation, but is still obtainable at 675 marks on a firm order.

PRICE OF BENZOL IN ENGLAND

The Complaints Tribunal of the Central Committee, London, England, heard the case of the Woodcote Motor Co. of Epsom against S. Bowley & Sons, Ltd., who charged 2s 6d per gallon for benzol, a profit of 43/4d.

The committee were of opinion that no case of profiteering had been made out, and nothing could be alleged against the respondents. The chairman added: "It is quite clear that in relation to benzol there is some attempt being made to make a corner in this trade, and we propose to pass the matter to the committee which sits under the Profiteering Act in connection with Trusts and Combines."

SULPHURIC ACID MERGER IN JAPAN

A merger of the sales departments of four Japanese companies making sulphuric acid is announced from Tokyo. The companies are the Dai Nippon Jinzo Hiryo Kaisha, Kwanto Sanso Kaisha, Tokyo Ryusan Kaisha, and Nippon Jinzo Hiryo Kaisha. The arrangement provides that contracts entered into before the new company was formed shall be carried out by the individual concerns. The price of sulphuric acid on Dec. 3 was yen 19 per 200 pounds for the 65 per cent, while at the close of November it was yen 12.

SHIPMENTS OF CHILIAN NITRATE

The last of the fleet of vessels allocated to the Chilinitrate movement has now cleared for destination, and these sixteen ships may be expected to be soon available for other traffic. These vessels, with a net tonnage of 52,583 tons, have carried in the export of nitrates 80,568 tons of cargo, all passing through the Panama Canal. All of them were operated under the Shipping Board.

The nitrate shipments were as follows: 75,927 tons in fourteen whole cargoes from Chilian ports; 11,200 tons to Halifax, 10,970 tons to Belgian ports, 8,575 tons to La Pallice, 2,357 tons to Havre, 4,150 tons to Nantes, 8,426 tons to Dunkirk, 7,350 tons to Rotterdam, 2,875 tons to Valencia, 7,700 tons to Savannah, 7,509 tons to Wilmington, N. C., and 4,815 tons to New Orleans.

Laird & Adamson, of Liverpool, say of Chilian nitrate: "Early in the month resales were taking place of this year's delivery at about 9s 5½d to 9s 6½d per quintal for ordinary, f. o. b. Chili. Later, both reseliers and the Producers' Association withdrawing, the market became considerably firmer, and except that business was done by outside producers at about 9s 10d for this year's delivery, quotations were difficult to give. Demand is good and increasingly difficult to supply. At the close the Producers' Association is stated to have fixed a new price, namely, 10s 6d for ordinary for a quantity limited to 100,000 tons for delivery up to March 31, 1920. Presumably the premium for refined remains at 2d per quintal. Strikes at various loading ports have been reported. Freight rates are about £11 per ton for steamers and £8 10s to £9 10s for sailers. Exchange is 11 1-32d per dollar paper and 22d gold."

CHEMICAL WAGES IN ENGLAND

The Chemical Employers' Federation of London has prepared a memorandum on the report of the employers' representatives on the Shift Inquiry Committee. They remark that they are impressed by these particular features of the report: (1) That the evidence of unrest was submitted in the main by trades union officials, and was not in any single instance corroborated by the employers, whose experience was that their workmen have not exhibited signs of unrest and discontent; (2) that the reductions in earnings of which complaint was made to the Shift Inquiry Committee were the direct and logical result of a national agreement between the men's unions and their employers.

The present position, the Federation states, is that on the average, day laborers have received advances amounting to 176 per cent and shiftment of 160.7 per cent over pre-war rates; whereas the cost of living is given as being 125 per cent in excess of pre-war. Chemical manufacturers feel, therefore, that these figures discount entirely the grievance in regard to the conversion of 12 to 8-hour shifts. The proposal of the unions for minimum rates of 1s 6d and 1s 8d would impose an impossible burden on the great majority of manufacturers and certainly create unemployment.

Asked whether the French Government imposed duties on the export from French Colonies of palm kernels, the Under-Secretary of State for Foreign Affairs stated in the House of Commons, on Nov. 27, that the French Government has imposed export duties on oleaginous produce shipped from French West African Colonies to all destinations, including France. He added: "It is therefore evident that these duties have not been levied as a retaliatory measure for the duty imposed on palm kernels exported from British West African Colonies to destinations other than the British Empire."

PRODUCTION OF CHEMICALS IN JAPAN REVIEWED BY DR. HAKUTARO NISHIDA

Price of Salt Retards Development of the Soda Industry—Government Laboratory Still Working on Extraction of Nitrogen from the Air—Acids, Alkalis and Electrochemical Products

Dr. Hakutaro Nishida said in a recent interview in Tokyo that the manufacture of sulphate ammonia has developed into a very prosperous chemical industry in Japan as the country has been made self-supporting in respect of this commodity. The production of nitrate lime has also developed with the growth of the electrical furnace industry though there is further room for the development of the industry. The production of nitrate lime in various countries in 1916 was as follows: America 64,000 tons; Germany 36,000 tons; Austria 24,000 tons; Norway 23,500 tons; Italy 22,500 tons; Switzerland 17,000 tons; France 7,500 tons; Sweden 7,500 tons; Japan 3,500 tons.

As to the production of synthetic ammonia the success of the industry seems to be as far away as ever before though we are willing to assume that the Government laboratory for the extraction of nitrogen from the air will achieve success sooner or later. With regard to superphosphate of lime it had been increasing its production every year before the war and as there is an indication of some concerns engaged in the manufacture of alkali giving their attention to super-phosphate of lime it is probable that the production of the latter will be increased in the future.

The result of potash researches conducted by the industrial laboratory in the Department of Agriculture and Commerce and other institutions has been published but nothing has yet been done as to its manufacture.

As regards the manufacture of fuming sulphuric acid there has been some development during the war resulting in the establishment of some factories. As to the soda industry though the Japanese factories are adopting the electrolysis and the Solvay process it can scarcely be said that the future of the industry is promising so long as the principal material, industrial salt, is not supplied at a cheaper rate than is the case at present.

The production of caustic soda in Japan in 1915 amounted to 16,000,000 lbs. valued at 1,000,000 yen. The import of caustic soda, 1916, amounted to 19,900,000 kin valued at 2,939,000 yen.

The production of soda ash in Japan in 1916 amounted to 3,900,000 lbs. valued at 87,590 yen, while its import in the same year reached 64,000,000 yen valued at 3,700,000 yen.

The import of bicarbonate soda in 1915 amounted to 7,570,000 kin valued at 400,000 yen.

It is a well known fact that there has been over-production of potassium chloride and success has been achieved in the manufacture of bleaching powder by an electrolysis of hydrogen for hardening of liquid oils, liquified chlorine, phosphur, iron alloy, carborundum and sodium peroxide. It is however, only the manufacture of phosphorus and iron alloy which has been commenced on a fairly large scale. It is expected that the manufacture of phosphorus and of bleaching powder by an electric process will in the near future prove an incentive for the development of the chemical industry in this country.

A statement appearing in a Liverpool paper, last month, says that a British physician has discovered a new dye, which it is claimed "may supersede all aniline dyes. The new product is said to possess fluorescent properties, and two colors have already been obtained. The dye is obtained from organic substances, and one of the ingredients will have to be controlled by the Government."

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

NOTICE—The prices herein quoted are for large quantities in original packages. All prices are quoted on a basis of avoirdupois pounds and ounces and American gallons. Where the price of a product is indicated by two sets of figures separated by a dash (.16 — .19), it means that various manufacturers or importers of the item quote different prices which are all included within this range.

For the ready reference of foreign buyers, the following table of equiva-

lents is published:

1 Imperial Gallon (Brit.)—1.20 Amer. Gallons
1 American Gallon—233 Imperial Gallon
1 American Gallon—3.79 iters
1 Liter—264 American Gallon
1 American Gallon (H₂O) weighs \$ pounds
1 Pound (Aveirdupois) weighs 454 kilogram
1 Kilogram weighs 2.20 pounds (Aveirdupois)

Fine Chemicals

Acetanilid, C.P., bbls., blkfb.	.5556
Acetone	.5556
Acetone b. Acetphenetidin b. Aconitine, Sulph. 14-oz. vialsea. Adeps Lanae, hydrous, See Landin Alcohol 188 proof. gal. 190 proof, U.S.P. gal. Cologne Spirit, 190 proof, gal. Wood, ref. 95 p.c. gal. 97 p.c.	.131/2 .15
Acetpnenetidin	2.65 - 2.70
Aconitine, Sulph., 16-oz. vialsea.	
Adeps Lanae, hydrous, See Lan	nolin
Anhydrous, See Lanolin	
Alcohol 188 proof gal	4.70
190 proof H C D	4.70
Coloma Salait 100	4.75
Cologne Spirit, 190 proofgal.	5.00
wood, ret. 96 p.cgal.	1.56 1.60
Pure	2.05 - 2.10
Denatured, 180 prooftb.	.7173 .7375
188 proofth.	.73 - 75
Aloin Ti C D named 85	1.25 - 1.45 .9095
Alom C.S.F., powd	.9093
Aloin U.S.P., powd	.6570
Benzoate, cryst., U.S.P	4.00
Bichromate, C. P	.95 - 1.00
Bromide, gran., bulkfb.	.8081
Carb. Dom. U.S. kegs, powd. 1b.	.121236
Chloride U.S.Ptb.	24 25
Iodide	4.65
Oxalate, Pureb.	
Description	.6363
Persulphate	.90 - 1.03
Phosphate (Dibasic)	.5060
Salicylate, U.S.P	.95 - 1.00
Amyl Acetate, bulk, drums, gal.	.95 — 1.00 3.65 — 3.75
Salicylate, U.S.P	
Antimony)tb.	.1820
Needle nowder th	.101/12
Needle powder	.107710
Suipnate, 16-1/ per cent tree	.3574
suipauriD.	.3574
Antipyrine, bulk	5.85 - 6.00
Apomorphine Hydrochlorideoz.	26.80
Argols	.1011
Arsenic, red. See Heavy Chemic	
	CRIS
White, See Heavy Chemicals,	CALE
White, See Heavy Chemicals.	4.85
White, See Heavy Chemicals. Arsenous Icdide, U.S.P	4.85 1.00
White, See Heavy Chemicals. Arsenous Icdide, U.S.P	4.85 .95 - 1.00
White, See Heavy Chemicals. Arsenous Icdide, U.S.P	4.85 .95 - 1.00 30.00
White, See Heavy Chemicals. Arsenous Icdide, U.S.Pb. Aspirin	4.85 .95 - 1.00 30.00 14.00
White, See Heavy Chemicals, Arsenous Icdide, U.S.P	4.85 .95 - 1.00 30.00 14.00 2.25
sulphur hb. Assignment bulk b. Apomorphine Hydrochloride. oz. Argols b. Arsenie, red, See Heavy Chemicals. Arsenous Icdide, U.S.P. b. Aspirin b. Atro,ine. Alk. U.S.P., 1-oz.v.oz. Barbital b. Barium Carb. pree., pure b.	4.85 .95 - 1.00 30.00 14.00 2.25 .2829
Chicate pure	.2829
Chicate pure	.2829
Chlorate, pure	.2829 5.15 8.20 - 3.25
Chlorate, pure	.2829 5.15 8.20 - 3.25
Chlorate, pure	.2829 5.15 8.20 - 3.25
Chlorate, pure	.28 — .29 — 5.15 8.20 — 3.25 8.20 — 3.25 simonds)
Chlorate, pure	.28 — .29 — 5.15 8.20 — 3.25 8.20 — 3.25 simonds)
Chlorate, pure	.28 — .29 — 5.15 8.20 — 3.25 8.20 — 3.25 simonds)
Chlorate, pure	.28 — .29 — 5.15 8.20 — 3.25 8.20 — 3.25 simonds)
Chlorate, pure	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure B. Iodide Bay Rum, Porto Rico. gal. St. Thomas	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure B. Iodide Bay Rum, Porto Rico. gal. St. Thomas	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure B. Iodide Bay Rum, Porto Rico. gal. St. Thomas	28 — 29 — 5.15 3.90 — 3.25 3.100 — 3.25 3.100 — 3.25 3.100 — 3.50 — 31.00 — 35.00 — 3.50 — 2.95 — 4.25 — 4.25 — 4.25 — 3.50 — 3.50 — 3.50 — 3.50 — 2.95 — 3.50 — 2.95 — 3.50 — 2.95 — 3.50 — 2.95 — 3.50 — 2.95 — 2.95
Chlorate, pure B. Iodide Bay Rum, Porto Rico. gal. St. Thomas	.28 — .29 — — 5.15 3.20 — 3.25 3.30 — 3.25 almonds) 4.25 — 4.50 — — 31.00 — — 35.60
Chlorate, pure B. Iodide Bay Rum, Porto Rico. gal. St. Thomas	28 — 29 — 5.15 3.90 — 3.25 3.100 — 3.25 3.100 — 3.25 3.100 — 3.50 — 31.00 — 35.00 — 3.50 — 2.95 — 4.25 — 4.25 — 4.25 — 3.50 — 3.50 — 3.50 — 3.50 — 2.95 — 3.50 — 2.95 — 3.50 — 2.95 — 3.50 — 2.95 — 3.50 — 2.95 — 2.95

Tannate	Bismuth Subsalicylatetb.	3.50
Bromine, tech., bulk.	Tannate	2.80
Bromine, tech., bulk.	Borax in bbls crystals th	2.80 — 2.85
Bromine, tech., bulk.	Crystals, U.S.P., Kegstb.	.0834603/2
Metal sticks .	Bromine tech bulk th	te. 85 _ 65
Metal sticks .	Cadmium Bromide, crystals tb.	1.75 - 1.80
Phosphate, Precip.	Metal sticks	1.40 - 1.45
Phosphate, Precip.	Caffeine, alkaloid, bulk	7.00
Phosphate, Precip.	Citrated, U.S.P	6.00 - 6.25
Phosphate, Precip.	Sulphate	9.25 — 9.50
Phosphate, Precip.	Calcium Glycerophosphate lb.	1.70 - 1.75
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Phosphate, Precip	.2123
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Camphor Am. ref'd bbls.bk.fb.	3.30
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	16's in 1-lb. cartontb.	3.50
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	32's in 1-lb. cartonfb.	3.50
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Monobromated, bulk	3.40 5.05
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Caramelfb.	1.05 - 1.10
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Castor Oil, AA bbls	20
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Chalk, Precipfb.	.051/4 .06
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Chloral Hydrate IISP	.03035/2
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	tals, drums incl'd 100lb. lotsib.	95
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Chrysarobin, U.S.P	4.00
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Cinchonidin, Alk. crystalsoz.	1.26 74
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Sulphateoz.	45
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Gran., Powdoz.	10.50 10.75
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Cocoa Butter, bulk	.37½— .40 .45 — .46
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Codeine, Alk., 10-oz. lotsoz.	11.45
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Nitrateoz.	10.30
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Phosphateoz.	8.60 9.10
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Cod Liver Oil. Newfdbbls.	90.0092.00
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 19.35 — 19.56 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Collodion, U.S.P	.80 — .51
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Coumarin, refined, see Aromatic	Chemicals
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Cream of Tartar, cryst, U.S.P.fb.	.5556
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Creosote, U.S.Pfb.	1.15 - 1.20
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Cresol, U.S.Ptb.	.151416
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Dionin, See Morph. Ethyl Hydr	ochl. 2.80 — 3.00
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Emetine, Alk., 15 gr. vialsea.	2.00 27.00
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	15 gr., vialsea.	1.25
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Ether, U.S.P., Concfb.	17
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Washedb.	1.10 - 1.11
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	U.S.P., 1880fb.	34
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Eucalyptol, U.S.P., See Aromat	ie Chemicals
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	*Formaldehyde	1.25 - 1.30
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Glycerin, C.P.	95
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	C. P. in cans	27
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Dynamite drums included. D. Saponifications, loose b.	.16141714
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Soap Lye, loosetb.	.1616½
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Carbonate	6.50
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Importedgross	5.50
Hydrogenioride — 28.20 Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bottles — gross 7.50 — 7.75 8-0z. bottles — gross 11.35 — 11.50 12-0z. bottles — gross 16.25 — 16.50 16-0z. bottles — gross 16.25 — 16.50 Hydroguinone, bulk — 10. 2.05 Lehthyol — 4.50	Hydrastine, Alk	$\frac{1.30}{-}$ $\frac{-}{-26.50}$
Hydrogen Peroxide, U.S.P., 10 gr. lots 4-0z. bettles	Hydrochlorideoz.	26.50 26.50
16-oz. bottlesgross 19.35 -19.36 Hydroquinone, bulk	Hydrogen Peroxide, U.S.P., 10 g	r. lots
16-oz. bottlesgross 19.35 -19.36 Hydroquinone, bulk	8-oz. bottlesgross	11.25 —11.50
Hydroquinone, bulk	16-or, bottlesgross	16.25 —16.50 19.25 —19.56
Ichthyol	Hydroquinone, bulk	2.00 - 2.05 I
Iodine, Resublimedb 4.10 Iodoform, Powdered, bulkb 4.85	Ichthyol	
Control of the contro	Iodine, Resublimed	4.10 4.85
Crystals	Crystals	5.35

=			
	Iron Citrate, U.S.P., VIIItb.	_	- 1.22
	Iron Citrate, U.S.P., VIIItb. and Ammon. Citrate, U.S.P. b. Green scales, U.S.P. b. Iodide b. b. Syrup, U.S.P. 1900. b. Phosphate, U.S.P. b. Metallic, Reduced b. *Kamala, U.S.P. b. Lanolin, hydrous, cans U.S.P. b. Lanolin, hydrous, cans b. Lead Iodide, U.S.P. VIII. b. Licorice, U.S.P., Mass. b. Powdered b. Sticks b. Lithium Carbonate b. Citrate	1	- 1.07 - 1.33
	Iodidetb.	=	- 1.33 - 3.90
6	Phosphate U.S.P. 1900 Ib.		30 - 1.04
5	Pyrophosphate, U.S.Ptb.	-	- 1.09
	Metallic, Reduced	-	90 - 4.00
7	Lanolin, hydrous, cans U.S.P.tb.	.25	- 4.00 31
1	Anhydrous, cans	.35	41 - 3.05
3	Licorice, U.S.P., Masstb.	.54	55
	Sticks	.80	55 90 85
	Lithium Carbonate	-	- 1.50 - 2.50
U	Lycopodium, U.S.Ptb.	=	- 2.50
	Magnesium Carb. U.S.P.bbls.tb.	.19	20
	Glycerophosphate	.13	- 2.50 20 121/5 - 4.55
	Hyphophosphite	1.65	- 1.70 - 1.10
	Peroxide, cans	-	- 2.15
	Salicylate	.60	65
1	100-lbs.	2.00	- 2.10
	Lithium Carbonate b. Lithium Carbonate b. Lycopodium, U.S.P. bb. Magnesium Carb. U.S.P.bbls. bb. Technical, bbls. Giveerophosphate b. Hyphophosphite b. Oxide, tins light b. Salicylate b. Sulphate, cans b. Sulphate, Epsom Salt, tech. 100-bs. Manganese Glycerophos bb. Hypophosphite, U.S.P. 100-bs. Mappenses Glycerophos bb. Hypophosphite, U.S.P. VIIII- Iodide bb. Peroxide bb. Sulphate, crystals bb. Mertud, Japanese bb. Mercury, flasks, 75 lb. ca. Bisulphate bb. Blue Mass bb. Blue Ointment, 30 p.c. bb. Opwdered bb. Clirine Ointment bb. Clandel, Amer. bb. Corrosive Sublimate cryst. b. Powdered, Granular bb. Corrosive Sublimate cryst. b. Red bb.	3.25	- 2.75 - 3.35
	Hypophosphite, U.S.P., VIIItb.	2.00	- 2.10
5	Peroxide	.75	- 4.65 80
	Sulphate, crystals	10.50	80 55 -12.75
1	Mercury, flasks, 75 lbea.	85.00	-86.00
	Bisulphate	-	- 1.26 81
1	Powdered	=	83
1	Blue Ointment, 30 p.c	-	79
1	Citrine Ointmenttb.	_	$\frac{-1.10}{59}$
1	Calomel, Amer	5	- 1.68 - 1.56
1	Powdered, Granulartb.	-	- 1.51
1	Iodide, Green	_	-3.81 -3.91
1	Yellow	-	- 3.81 - 1.85
1	Red b. Yellow b. Red Precipitate b. Powdered b. White Precipitate b. Powdered b.	=	- 1.95
1	White Precipitate	_	-1.97 -2.02
1	with chalk	=	82
1	White Precipitate 1b. Powdered 1b. With chalk 1b. With chalk 1b. Milk, abicylate, see Aromatic Methylene Blue, medicinal. 1b. Milk, powdered 1b. Mineral Oil, white gal. Morphine, Acet, 25-oz. oz. Hydrobromide 0z. Hydrochloride 0z. Sulphate 0z. Diacetyl, Alkaloid 10-oz. oz. Diacetyl, Hydel. 0z. oz.	Che	micals —12.00
ı	Milk, powderedb.	1.00	- 23
Į	Morphine, Acet., 25-ozoz.	-	- 2.00 - 8.30 - 8.80
1	Hydrochloride	=	- 8.80 - 8.80
1	Sulphateoz.	-	- 8.80
1	Diacetyl. Alkaloid 10-ozoz. Diacetyl. Hydcloz. Ethyl Hydcloz. Oplum, cases, U.S.Pb.	_	-13.10 -11.85 -13.45
1	Ethyl Hydeloz.	=	-13.45 - 6.75
-	Granular	-	— 8.50
1	Ovgall pure U.S.P	1.50	- 8.50 - 1.55
1	Papain	1.50 3.50 3.10	- 4.00 - 3.60
1	Paraformaldehyde	3.10	
1	Paris Green, kegs	3.00	31
1	Opium, cases, U.S.P. Granular Granular Powdered, U.S.P. Doxgall, pure U.S.P. Dapain Parafin White Oll, U.S.P. Baraformaldehyde Daraformaldehyde Daris Green, kegs. Depoin. Dep	.071/2	08 093/4
1	Cream Whitetb.	.073/4	093/5 16
1	Snow Whitetb.	.10	20
1	Phenolphthalein	1.60	33
1	Red	.68 -	70 10.00
1	*Podophyllin	_ :	- 9.50
1	Potassium acetate	.75	80 30 60
1	Bicarbonate, U.S.P	.75 .27 .45 .75 .90 .85	60
1	C. P	.75	85
1	Bisulphate	.85	86
I	Chromate, crystals, vellow.	.15 -	1/
1	Granulated		75 - 1.78
1	Glycerophosphate, 75%oz.	1.75	- 1.80
1	Hynophosphite, bulkor.	1.95	- 2.00 - 3.35
1	Lactophosphateoz.	=	- 1.00
1	Lactophosphate02. Permanganate, U.S.Ptb.	.89 -	60
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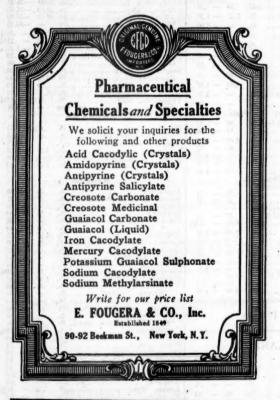
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5 gr. bottles 1.50 - 1.60 Ouicksilver. See Mercury	Acetic, 28 p.c See Heavy Chemicals	Reeds
Quicksilver, See Mercury Quinine Sulph., 100-oz. tinsoz90 1-oz. tinsoz98	Glacial, See Heavy Chemicals Acetyl-salicylic	Spanish
Second Hands, Javaoz9095	Benzoic, from gum	Guaranatb. 1.10 - 1.20
"Second Hands, Ameroz	U.S.P., ex toluol	Guarana
Alkaloid	Boric, cryst., bblsb14½— .14½ Powdered, bblsb14½— .14½	
Benzoateoz 1.29 Citrateoz 1.29	Butyric, Tech., 60 p.e	Kola Nuts, West Indiesfb1921
Dihyd'chlorideoz 1.2	Camphorie	
Hypophosphite	Carbolic cryst., U.S.P., drs.lb1518 1-lb. bottle	Lupulin
Phosphate	5-1b. bottle	Manns, large flaketb75 — .80 Small flaketb58 — .60 Moss, Icelandtb21 — .23
Tannate	50 to 110-lb. tins	Moss, Iceland
Sulphate, tins	Liquid, U.S.P	Tonquin
Resorcin crystals, U. S. P. b. 600 - 625	Chromic, U.S.P	Grain, Caboz. 23.08 —25.00 Tonquinoz. 45.00 —50.00
Rochelle Salt, crystals, bxsfb30 Powdered, bbls	Chrysophanic	*Synthetic
Rosewater, triple	Citric, crystals, bblstb84	Nux Vomica, wholetb08 — .08½ Powderedtb13 — .13½
U.S.P., Insoluble	Powdered	Powdered
Salol, U.S.P., bulk	Cresylic, 95-100 p.cgal7585	
	Formie, 75 p.c., techtb3036	Seammony, resin
Powdered	Gallie, U.S.P., bulk	Scammony, resin b. 42.95 - 3.20 Powdered b. 3.05 - 3.30 Spermaceti, blocks b. 29 - 30 Storax, liquid cases b. 1.50 - 1.60
Silver nitrate, 500 oz. lotsoz81% .82% .Soap, Castile, white purelb2628 Powd., U.S.P., bblslb3840	Hydriodic, sp. g. 1,150ar19	liamarinds, bois
Marseilles, white	Hydrofluoric, see Heavy Chemicals	BALSAMS 42
Sedium Acetate, U.S.P., gran.th. 25 - 29	Hydrosilicofluoric, 10 p.c.tech.fb4045 20 p.c. techfb5060	Copaiba, Para
Benzoate, gran., U.S.Ptb7577 Bicarb. U.S.P., powd., bblstb024024 Bromide, U.S.P., bulktb7576	Hypophosphorous SD ne th 240 - 250	South Americantb6065 *Flr, Canadagal14.75
Bromide, U.S.P., bulkb7576 Cacodylate - 1.40	U.S.P., 10 p.e	Oregongal. 1.75 — 1.80
Cacodylateoz 1.40 Chlorate, U.S.P. 8th Rev. crystals, c.b. 10tb15½ .16	U.S.P., IX	Peru
Granular, c.b. 10		BARKS
Citrate, U.S.P., Cryst.VIIIb 1.00 Granular, U.S.P., gran.IX.ib 1.24	Nitric, see Heavy Chemicals	Angostura
Cyanide 96-98, see Heavy Chemicals	Muriatic, see Heavy Chemicals Nitric, see Heavy Chemicals Nitro Muriatic Oxalic, cryst, bbls	Basswood Bark, pressedtb1721
Glycerophosphate, crystals fb. 2.15 - 2.20 Hypophosphite, U.S.P fb. 1.00 - 1.05	Picric, kegs, see Intermediates Phosphoric, 85-88p.c.syr.U.S.P.fb32 — .33	Bayberrytb5060
	50 p.c. tech	Blackhaw, of roottb60 — .65 of Treetb35 — .40
Phosphate, U.S.P., grantb13	Pyrogallic, resublimedtb. 2.50 - 2.55 Crystals, bottlestb. 2.20 - 2.25	Buckingra
	Crystals, bottles	Cascara Sagrada
Dried	Sulphurous	Cascarilla, quilsb Siftingsb
Strontium Brom, Cryst., Dik.ID/319	Tannic, U.S.P	Chestnut
Carbonate, pure	Tartaric Crystals, U.S.P	Breken
Iodide, bulk		Broken
Acciate	Crude Drugs	*Loxa, pale, bstb *Powdered, boxestb
Hypophosphite		"Maracaibo, yellow, powd
		Cotton Roottb25 — .40
	MISCELLANEOUS	Condurango
Sugar of Milk, Powder	Agar, Agar, No. 1	Dogwood, Jamaica
Sulphomethane, U.S.P 13.00 —14.00 Sulphomethane, U.S.P 13.00 —3.50	No. 2tb80	Select Ddls
Flour. 100 p.c. pure100 lbs. 3.35 — 3.75	No. 3	Lemon Peel
Sulphur roll, 9018 100 bs. 3.35 - 3.78 Flour, 100 p.c. pure 100 bs. 3.55 - 3.95 Freein, U.S.P 100 bs. 3.55 - 3.95 Precip., U.S.P 100 bs. 3.35 - 3.78 Precip., U.S.P 100 bs. 3.55 - 3.95 Precip., U.S.P 100 bs. 3.55 Precip., U.S	Almonds, bittertb35 — .40 Sweettb35 — .40	Mezereon 10. 25 - 28
Lac Sulphur	Meal	Oak, red b0829 White b0809 Orange Peel, bitter b0910 Malaga, Sweet b1213
U.S.P	Ambergris, black	Malaga, Sweet
Terpin Hydrate	Grey	I rieste, sweet
Thymol, crystals, U.S.Pb12.50 Todide, U.S.P., bulkb11.50	Powdered	Northern
Jodide, U.S.P., Bulk. 10 1100 Tin, bichloride, see Heavy Chemicals Oxide, 500 th. bbls	Balm of Gllead Buds	Pomegranate of Root
Teluel. See Coal Tar Crudes.	Burgundy Pitch, Dom	Sassafras, ordinarytb4045
Trionaloz. 1.06 - 1.10	Powdered	
Artificial	Russian, whole	Simaruba
Vanillin, see Aromatic Chemicals Witch Harel, Ext., dble dist.,	Powdered	Cut
Witch Harel, Ext., dble dist.,	Wood, powdered	Wahoo, of Root
bbl	Civet	Willow, Black
	Colocynth, Apples, Trieste	Simaruba D
Caloride, beile	Pulp, U.S.Ptb35 — .36 Spanish Apples	Wild Cherry
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Green Label	*Coca, Huanueo	.60 = .70	Gelsemiumtb. Gentian	.1213
BERRIES HA STAM THE	Coltsfoot	.1819	Gerenium	.2728
Cubeb, ordinary	Corn Silktb.	.1214	Ginger, Jamaica, unbleachedtb. Bleached	
Powdered	Damiana	14	*Ginseng, Cultivatedfb. Wild, Eastern	3.00 — 9.00 5.00 —10.00
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Spanish	Matico	.441/2 .45	Lady Slipper	.80 — .90 .17 — .18
Dogwood	French	.45451/2	Selected	24 = 25
Insect. open	Patchouli	.7683		.2425 .7375
Closed	Pennyroyal	.1216 .2630	Manacatb.	.25 — .26 .35 — .38
Powd. Flowers	Prince's Pine	1112 .2122	Musk Russian	1.90 - 2.00
Lavender ordinary	Plantaintb.	.1214	Musk, Russian	.20 — .21 .20 — .21
Select	Pulsatilla	2.50 - 3.00 .1011	Densies Reams	.3032
Without Leaves	Rose, redtb.	1.00 - 1.10		$\frac{.29}{1.25} - \frac{.31}{1.50}$
Malva, blue	Rosemary	.1214	Planting	23
Black	Sage, Austrian, stemless	.28 — .29		.1820 $.1214$
Poppy, red	*Greek, stemlessb. Spanishb.	.2122	Rhatany	===
Rosemary	Savory	.1516	Chipsb.	=
Valenciatb. 15.00 —15.25 Tilia (see Linden)	Senna, Alexandria, wholelb.	.75 — .90 .45 — .50	High Dried	1.75
GUMS . A.C.	Half Leaf	.2528	Sarsaparilla, Hondurastb.	.6670 .3843
Aloes, Barbados	Tinnevelly	.3035	Mayican	.4546
Cape	Pods	.1012 .4045	Senega, Northerntb.	$\frac{-2.50}{-2.50}$
Socotrine, whole	Spearmint AmericanID.	.2022	Sementaria	.7580
Powdered	Squaw Vine	.3536 .3640	Short Cabbage	
Powdered	Etianomia in		Cata Canada antural fb.	.2022
10000000	Tansy	15	Skunk Cabbage	.5055
Arabic, firsts	Thyme, Spanish		Stripped	
Arabic, firsts	Thyme, Spanish	15 .11113/2 .141472 .0910	Spikenard	.5055 .3235 .1213
Arabic, firsts	Thyme, Spanish	15 .1111½ .1414½ .0910	Spikenard bb. Squill, white bb. Stillingia bb.	
Arabic, firsts D. 30 - 40	Thyme, Spanish D.	15 .1111½ .1414½ .0910	Stripped	
Arabic, firsts D. 30 - 40	Thyme, Spanish D.	15 .1111½ .1414½ .0910 .0810 .1415 .1415	Stripped B. Spikenard B. Squill, white B. Stillingia B. Stone B. Turmeric Madras B. Aleppy B. Chins B.	
Arabic, firsts D. 30 - 40	Thyme, Spanish D.	15 .1111½ .1414¾ .0910 .0610 .1415 .1415	Stripped B. Spikenard B. Squill, white B. Stillingia B. Stone B. Turmeric Madras B. Aleppy B. Chins B.	45 .5055 .3235 .1213 14 .10½11 .0909½ .07½08 .5560 .95 - 1.10
Arabic, firsts b. 30 — 40 Scendas b. — — Sorts Amber b15½— 16 Powdered b2 — .30 Asafectida, whole, U.S.P b. 3.59 — 2.85 Powdered b. 4.73 — 5.00 Sumatra b. 30 — 1.00 Sumatra b33 — .36 Camphor, ref. See Pg. 28 Col. 2 Catechu b11 — .15 Chicle, Mexican b. 1.20 — 1.25 Euphorbium b. 23 — .30	Thyme, Spanish D. French D. Uva Urai D. Uva Urai D. Witch Hazel D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D.	- 15 .11 - 111/4 .14 - 1447 .09 - 10 .0610 .1415 .1415 90 2.25 - 2.50	Stripped B. Spikenard B. Squill, white B. Stillingia B. Stone B. Turmeric Madras B. Aleppy B. Chins B. Unicora false (Helonias) B. True (Alerris) B. Valerian, Belgian B. English B.	
Arabic, firsts b. 30 — 40 Scendas b. — — Sorts Amber b15½— 16 Powdered b2 — .30 Asafectida, whole, U.S.P b. 3.59 — 2.85 Powdered b. 4.73 — 5.00 Sumatra b. 30 — 1.00 Sumatra b33 — .36 Camphor, ref. See Pg. 28 Col. 2 Catechu b11 — .15 Chicle, Mexican b. 1.20 — 1.25 Euphorbium b. 23 — .30	Thyme, Spanish D.	- 15 .11 - 113/4 .14 - 144/2 .09 - 10 .06 - 10 .1415 .1415 90 2.25 - 2.50 .3540	Stripped B. Spikenard B. Squill, white B. Stillingia B. Stillingia B. Stone B. Turmeric Madras B. Aleppy B. China B. Unicorn false (Helonias) B. True (Aletris) B. Valerian, Belgian B. **English B. **German B.	.5055 .3235 .1213 .1314 .10½11 .0909½ .07½08 .5560 .5558 58
Arabic, firsts b. 30 — 40 Seconds b. 30 — 40 Sorts Amber b. 1834 — 16 Powdered b. 27 — 30 Asafoctida, whole, U.S.P. b. 3.50 — 2.55 Powdered b. 4.75 – 5.00 Benzein, Siam b. 30 — 1.00 Sumatra b. 30 — 1.00 Sumatra b. 31 — 15 Catechu b. 11 — 15 Chicle, Mexican b. 120 — 1.35 Euphorbium b. 28 — 30 Powdered b. 35 — 50	Thyme, Spanish D.	- 15 .11 - 113/4 .14 - 144/2 .09 - 10 .06 - 10 .1415 .1415 90 2.25 - 2.50 .3540	Stripped B. Spikenard B. Spikenard B. Spikenard B. Stone B. Turmeric Madras B. Turmeric Madras B. Unicorn false (Helonias) B. Unicorn false (Helonias) B. Valerian, Belgian B. *English B. *English B. *German B. *Japanese B. *Valler Dock B.	- 45 50 - 55 .3235 .1213 .1314 .10909 .09709 .5560 .95 - 1.10 .3558 1.25 .1315
Arabic, firsts b. 30 - 40 Sceonds b	Thyme, Spanish D. French D. Witch Hazel D. Witch Hazel D. Wornwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Angelica American D. Angelica American D. Arnica D. Arnica D. Arnica D. Angelica D. Arnica D. Arnica D. Arnica D. D. Arnica D. D. Merican D. D. Arnica D. D. Merel D. D. Arnica D. D. Merel D. D. Arnica D. D. D. D. Merel D. D. Arnica D.	- 15 .11 - 111/4 .14 - 14/2 .0910 .0610 .1415 .1415 .1415 90 .22 - 2.50 .3540 .3540 .3540 .3540 .3540	Stripped B. Spikenard B. Squill, white B. Stillingia B. Stillingia B. Stone B. Turmeric Madras B. Aleppy B. China B. Unicorn false (Helonias) B. True (Aletris) B. Valerian, Belgian B. **English B. **German B.	
Arabic, firsts b. 30 - 40 Scends b	Thyme, Spanish D.	- 15 .11 - 111/4 .14 - 14/2 .0910 .0610 .1415 .1415 .1415 90 .22 - 2.50 .3540 .3540 .3540 .3540 .3540	Stripped Spikenard B. Spikenard B. Scillingia B. Stillingia B. Stillingia B. Stillingia B. Stone B. Turmeric Madras B. Turmeric Madras B. Unicorn false (Helonias) B. True (Aletris B. Stillingia B. S	
Arabic, firsts b. 30 - 40 Scendas b	Thyme, Spanish D. French D. Witch Hazel D. Witch Hazel D. Wornwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Angelica American D. Angelica American D. Arnica D. Arnica D. Arnica D. Angelica D. Arnica D. Arnica D. Arnica D. D. Arnica D. D. Merican D. D. Arnica D. D. Merel D. D. Arnica D. D. Merel D. D. Arnica D. D. D. D. Merel D. D. Arnica D.	- 15 .11 - 111/4 .14 - 14/4 .09 - 10 .06 - 10 .14 - 15 .14 - 15 .14 - 15 .14 - 15 .15 .14 - 16 .15 .16 - 10 .17 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19	Stripped Spikenard b. Squill, white b. Stone b. Stone b. Turmeric Madras b. Aleppy b. China b. Unicorn false (Helonias) b. True (Aletris) b. Valerian, Belgian b. *English b. *English b. *German b. *Japanese b. Yellow Dock b. *Yellow Parilla b. SEEDS Anise Levant b.	
Arabic, firsts b. 30 - 40 Scendas b	Thyme, Spanish D. French D. French D. Uva Urai B. Witch Hazel D. Wornwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. B. German D. Alkanet B. Alkanet B. Althea, cut B. Unported D. Angelica American B. Arrowroot, American B. Arrowroot, American B. Bermuda B. St. Vincent B. Samboe Brier B.	- 15 11 - 111/4 114 - 14/4 0.9 - 10 0.6 - 10 14 - 15 14 - 15 14 - 15 14 - 15 90 2.25 - 2.50 3.5 - 40 3.5 - 37 3.5 - 3069 8.5 - 1.006916 1012	Stripped Spikenard b. Squill, white b. Stillingia b. Stone b. Turmeric Madras b. Aleppy b. Unicorn false (Helonias) b. True (Aletris) b. Valerian, Belgian b. *English b. *German b. *Japanese b. *Yellow Dock b. *Yellow Parilla b. Star b. Spanish b. Spanish b. Spanish b. Spanish b.	- 45 50 - 55 .3235 .1213 .1314 .10909 .09709 .5560 .95 - 1.10 .3558 1.25 .1315
Arabic, firsts b. 30 — 40 Seconds b. 30 — 40 Sorts Amber b. 1854 — 16 Powdered b. 27 — 30 Asafectida, whole, U.S.P. b. 3.50 — 3.55 Powdered b. 4.75 – 5.00 Bensein, Siam b. 30 — 1.00 Sumatra b. 33 — 36 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 11 — 15 Chicle, Mexican b. 120 — 1.35 Euphorbium b. 28 — 30 Gabbanum b. 138 — 145 Gamboge b. 180 — 1.90 Gambage b. 180 — 1.90 Gambage b. 180 — 1.90 Gualac b. 33 — 90 Hemlock b. 33 — 90 Kino b. — 50 Mastic b. 95 — 1.00 Myrrh, Select bb. 85 — 90 Sorts b. 76 — 78 Siftings	Thyme, Spanish D. French D. Uva Urai D. D. Uva Urai D. Wornwood imported D. Aconite, U.S.P. D. German D. Allkanet D. Allkanet D. Allkanet D. Angelica American D. Arrowroot, American D. Arrowroot, American D. Arrowroot, American D. St. Vincent D. St. Vincent D. Bamboe Brier D. Bearsfoot D. Beeladonna D. Belladonna D. Belladonna D. D.	- 15 11 - 111/4 114 - 14/4 0.9 - 10 0.6 - 10 14 - 15 1.14 - 15 1.14 - 15 90 2.25 - 2.50 3.35 - 40 3.35 - 37 3.99 - 69 8.85 - 1.00 - 10 - 12 0.66 - 00 5065	Stripped Spikenard b. Squill, white b. Stillingia b. Stone b. Turmeric Madras b. Aleppy b. Loricon false (Helonias) b. True (Aletris) b. Valerian, Belgian b. *English b. *German b. *Japanese b. Yellow Dock b. *Yellow Parilla b. Syanish b. Spanish b.	
Arabic, firsts b. 30 - 40 Seconds b. 30 - 40 Sorts Amber b. 1854 - 16 Powdered b. 27 - 30 Asafoetida, whole, U.S.P. b. 3.50 - 2.85 Powdered b. 4.75 - 6.00 Bensoin, Siam b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 20 - 1.00 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 11 - 15 Chicle, Mexican b. 120 - 1.35 Euphorbium b. 23 - 30 Fowdered b 50 Gambier b. 11 - 12 Gamboge b. 180 - 1.90 Gualac b. 85 - 1.00 Hemlock b. 83 - 50 Myrth, Select b. 85 - 90 Mastic b. 95 Sorts b. 70 - 78 Siftings b 16	Thyme, Spanish D. French D. French D. Uva Urai D. Witch Hazel D. Wormwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Angelica American D. Arnica D. Bermuda D. St. Vincent D. Bamboo Brier D. Bamboo Brier D. Belladonna D. Belladonna D. Belladonna D. Belladonna D. Berberis, Aquifolium D. Berberis, Aquifoli	- 15 .11 - 111/4 .14 - 14/4 .09 - 10 .06 - 10 .14 - 15 .14 - 15 .14 - 15 .14 - 15 .1590 .22 - 2.50 .3540 .3537 .9060 .1012 .1012 .1012 .1010 .1012 .1010 .1012 .1010 .1012	Stripped Spikenard b. Squill, white b. Stillingia b. Strone b. Aleppy b. Aleppy b. Linia b. Linia b. True (Aletris) b. True (Aletris) b. Yalerian, Belgian b. *German b. *Japanese b. Yellow Dock b. Yellow Parilla b. Star b. Spanish b. Star b. Spanish b. Morocco b. Morocco b. Morocco b. South American b.	
Arabic, firsts b. 30 - 40 Seconds b. 30 - 40 Sorts Amber b. 1854 - 16 Powdered b. 27 - 30 Asafectida, whole, U.S.P. b. 3.50 - 2.85 Powdered b. 4.75 - 6.00 Bensein, Siam b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 30 - 1.00 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 11 - 15 Chicle, Mexican b. 120 - 1.35 Euphorbium b. 23 - 30 Fowdered b 90 Galbarum b. 1.38 - 1.45 Gambier b. 11 - 12 Gamboge b. 180 - 1.90 Gualac b. 85 - 1.00 Hemlock b. 83 - 90 Kino b 50 Mastic b. 85 - 90 Mastic b. 55 - 1.00 Myrth, Select b. 85 - 90 Siftings b. 70 - 78 Siftings b. 15 - 16 Tears De Pg. 28 Col. 3	Thyme, Spanish D. French D. French D. Uva Urai D. Witch Hazel D. Wormwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D. Alkanet D. Angelica American D. Angelica American D. Arnica D. Belladonna D. Beerberis, Aquifolium D. Berberis, Aquifolium D. Beeth D. Blood D. D. D. D. Blood D.	- 15 - 114 - 114/4 - 124/4 - 19 - 10 - 10 - 14 - 15 - 14 - 15 - 15 90 - 22 - 25 - 35 - 37 - 39 - 40 - 35 - 37 - 90 - 16 90 16 90 16 10 12 - 106 90 15 - 17 - 18 - 20 - 23 - 23	Stripped Spikenard b. Squill, white b. Stillingia b. Stone b. Turmeric Madras b. Aleppy b. Unicorn false (Helonias) b. True (Aletris) b. True (Aletris) b. Yalerian, Belgian b. *English b. *German b. *German b. *Japanese b. *Yellow Dock b. *Yellow Parilla b. Star b. Star b. Spanish b. Canary, *Spanish b. Morocco b. South American b.	4555553235121314141909090909556055582520
Arabic, firsts b. 30 - 40 Seconds b. 30 - 40 Sorts Amber b. 1854 - 16 Powdered b. 27 - 30 Asafectida, whole, U.S.P. b. 3.50 - 2.85 Powdered b. 4.75 - 6.00 Bensein, Siam b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 30 - 1.00 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 11 - 15 Chicle, Mexican b. 120 - 1.35 Euphorbium b. 23 - 30 Fowdered b 90 Galbarum b. 1.38 - 1.45 Gambier b. 11 - 12 Gamboge b. 180 - 1.90 Gualac b. 85 - 1.00 Hemlock b. 83 - 90 Kino b 50 Mastic b. 85 - 90 Mastic b. 55 - 1.00 Myrth, Select b. 85 - 90 Siftings b. 70 - 78 Siftings b. 15 - 16 Tears De Pg. 28 Col. 3	Thyme, Spanish D. French D. Witch Hazel D. Witch Hazel D. Wornwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. Aconite, U.S.P. D. Alkanet D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Arnica D. Arnica D. Arnica D. Arnowroot, American D. Bermuda D. St. Vincent D. Bearsafoot D. Bearsafoot D. Belladonna D. Berberis, Aquifolium D. Berberis, Aquifolium D. Blood D. Blood D. Blueflag D.	- 15 - 11 - 111/4 - 14/4091006101415159025 - 2.598537901610161016101610161016101610161016101610161016101610161016101610	Stripped Spikenard b. Squill, white b. Stillingia b. Stone b. Turmeric Madras b. Aleppy b. Unicorn false (Helonias) b. True (Aletris) b. True (Aletris) b. Valerian, Belgian b. *English b. *German b. *Japanese b. *Yellow Dock b. *Yellow Parilla b. Star b. Star b. Star b. Spanish b. Spanish b. Canary, *Spanish b. Morocco b. South American b. Caraway, African b. Datch b.	
Arabic, firsts b. 30 - 40 Scendes b. 30 - 40 Sorts Amber b. 1854 16 Powdered b. 27 - 30 Asafectida, whole, U.S.P. b. 3.50 - 3.55 Powdered b. 4.75 - 5.00 Bensein, Siam b. 30 - 1.00 Sumatra b. 33 - 36 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 1115 Chicle, Mexican b. 120 - 1.35 Euphorbium b. 2830 Gabbarum b. 138 - 1.45 Gamboge b. 180 - 1.90 Gamboge b. 180 - 1.90 Gamboge b. 180 - 1.90 Gualac b. 33 - 90 Hemlock b. 33 - 90 Hemlock b. 33 - 90 Myrrh, Select b. 85 - 90 Sorts b. 7078 Siftings b. 1516 Opium, See Pg. 28 Col. 3 Sandarac b. 30 - 30 Sengal, pieked b. 31 - 30 Sengal, pieked b. 31 - 30	Thyme, Spanish D. French D. Uva Urai D. Witch Hazel D. Wormwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Arnica D. Berberia D. Berberia D. Belladonna D. Berberia, Aquifolium D. Belladonna D. Berberia, Aquifolium D. Beth D. Blood D. Blueflag D. Burdock, Imported D. B. Burdock, Imported D. B. Burdock, Imported D. B. Burdock, Imported D. B. Burdock, Imported D. D.	- 15 - 11 - 111/4 - 14/409100610141515152525353739693016101610161016101610161016101610161016101610161016101610161016101610	Stripped Spikenard b. Squill, white b. Stillingia b. Stone b. Turmeric Madras b. Aleppy b. Unicorn false (Helonias) b. True (Aletris) b. True (Aletris) b. Valerian, Belgian b. *English b. *German b. *Japanese b. *Yellow Dock b. *Yellow Parilla b. Star b. Star b. Star b. Spanish b. Spanish b. Canary, *Spanish b. Morocco b. South American b. Caraway, African b. Datch b.	
Arabic, firsts b. 30 - 40 Seconds b. 30 - 40 Sorts Amber b. 1854 16 Powdered b. 27 - 30 Asafoetida, whole, U.S.P. b. 3.50 - 2.55 Powdered b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 33 - 26 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 11 - 15 Chicle, Mexican b. 120 - 1.35 Euphorbium b. 23 - 30 Powdered b. 138 - 145 Gambier b. 13 - 145 Gamboge b. 180 - 1.90 Galbanum b. 138 - 1.90 Gambage b. 180 - 1.90 Hemiock b. 33 - 90 Hemiock b. 33 - 90 Myrrh, Select b. 85 - 90 Sorts b. 70 - 72 Sliftings b. 18 - 30 Opium, See Pg. 28 Col. 3 Sandarac b. 18 - 30 Opium, See Pg. 28 Col. 3 Sandarac b. 18 - 30 Sandarac b. 38 Sandarac b. 39 Sandarac b. 30 Sandara	Thyme, Spanish D. French D. Uva Urai B. Witch Hazel D. Wormwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. B. German D. Althea, cut D. Molec D. Angelica American D. Arnica D. Bermuda D. St. Vincent D. St. Vincent D. Berberis, Aquifolium D. Beth D. Bluefing D. Bluefing D. Bluefing D. Bluefing D. Bluefing D. Burdock, Imported D. American D. Burdock, Imported D. D. American D. D. American D. Burdock, Imported D. D. American D. D. American D. D. D. American D. D. D. American D. D. Morten D. D. D. Morten D. D. D. D. D. Morten D.	- 15 11 - 111/4 114 - 14/4 0.9 - 10 0.6 - 10 14 - 15 14 - 15 14 - 15 14 - 15 2.25 - 2.59 3.5 - 40 3.5 - 37 3.5 - 37 3.5 - 30 - 1.6 10 - 12 0.6 - 0.9 10 - 12 0.6 - 0.9 10 - 12 0.6 - 0.9 115 - 17 118 - 20 118 - 19 116 - 17	Stripped Spikenard b. Squill, white b. Stone b. Turmeric Madras b. Aleppy b. Chins b. Unicor false (Helonias) b. Valerian, Belgian b. *English b. *German b. *German b. *Japanese b. *Yellow Dock b. *Yellow Parilla b. Star b. Star b. Spanish b. Star b. Spanish b. Canary, *Spanish b. Morocco b. South American b. Cardaway, African b. Cardaway, African b. Cardamom, bleached b. Celery b.	
Arabic, firsts b. 30 - 40 Scendes b. 30 - 40 Sorts Amber b. 1834 - 16 Powdered b. 27 - 30 Asafoctida, whole, U.S.P. b. 3.50 - 2.55 Powdered b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 11 - 15 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 11 - 15 Chicle, Mexican b. 120 - 1.35 Euphorbium b. 23 - 30 Powdered b50 Gambier b. 138 - 1.45 Gambier b. 138 - 1.45 Gambier b. 138 - 1.45 Gambier b. 139 - 1.45 Gambier b. 139 - 1.45 Gambier b. 180 - 1.50 Mastic b. 55 - 1.00 Mayrrh, Select b. 85 - 90 Sorts b. 70 - 78 Siftings b. 18 Olibanum, siftings b. 15 - 16 Opium, See Pg. 28 Col. 3 Sandarac b. 6670 Spruce b. 1.00 - 1.50 Spruce b. 1.00 - 1.50 Tragecanth, Aleppo first b. 53 - 550 Tragecanth, Aleppo first b. 53 - 550	Thyme, Spanish D. French D. French D. Uva Urai D. Witch Hazel D. Wormwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D. Alkanet D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Arnica D. Arnica D. Arnica D. Arnica D. Arnowroot, American D. St. Vincent D. Berberis, Aquifolium D. Berberis, Aquifolium D. Berberis, Aquifolium D. Blood D. Blood D. Blood D. Burdock, Imported D. American D. Calamus, bleached D. D.	- 15 11 - 111/4 114 - 14/4 109 - 10 08 - 10 14 - 15 114 - 15 - 90 225 - 250 335 - 40 35 - 37 5966 1012 10600 1012 10600 11820 12966 11517 1617	Stripped Spikenard b. Squill, white b. Stone b. Turmeric Madras b. Aleppy b. Chins b. Unicor false (Helonias) b. Valerian, Belgian b. *English b. *German b. *German b. *Japanese b. *Yellow Dock b. *Yellow Parilla b. Star b. Star b. Spanish b. Star b. Spanish b. Canary, *Spanish b. Morocco b. South American b. Cardaway, African b. Cardaway, African b. Cardamom, bleached b. Celery b.	
Arabic, firsts b. 30 - 40 Scendes b. 30 - 40 Sorts Amber b. 1834 - 16 Powdered b. 27 - 30 Asafoctida, whole, U.S.P. b. 3.50 - 2.55 Powdered b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 30 - 1.00 Sumatra b. 11 - 15 Camphor, ref. See Pg. 28 Col. 2 Catechu b. 11 - 15 Chicle, Mexican b. 120 - 1.35 Euphorbium b. 23 - 30 Powdered b50 Gambier b. 138 - 1.45 Gambier b. 138 - 1.45 Gambier b. 138 - 1.45 Gambier b. 139 - 1.45 Gambier b. 139 - 1.45 Gambier b. 180 - 1.50 Mastic b. 55 - 1.00 Mayrrh, Select b. 85 - 90 Sorts b. 70 - 78 Siftings b. 18 Olibanum, siftings b. 15 - 16 Opium, See Pg. 28 Col. 3 Sandarac b. 6670 Spruce b. 1.00 - 1.50 Spruce b. 1.00 - 1.50 Tragecanth, Aleppo first b. 53 - 550 Tragecanth, Aleppo first b. 53 - 550	Thyme, Spanish D. French D. French D. Ura Urai B. Witch Hazel D. Witch Hazel D. Wormwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. B. German D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Angelica American D. Arnica D. Belladonna D. Berberis, Aquifolium D. Beth D. Burdock, Imported D. Calamus, bleached D. Unbleached, natural D. Calamus, bleached D. Cohosh, black D. Burdock, Insported D. Cohosh, black D. D. Cohosh, black D. Calamus, black D. Calam	- 15 11 - 111/4 114 - 14/4 0.9 - 10 0.6 - 10 14 - 15 14 - 15 14 - 15 14 - 15 14 - 15 15 16 - 10 17 16 - 10 16	Stripped Spikenard b. Squill, white b. Stullingia b. Stone b. Turmeric Madras b. Aleppy b. Aleppy b. China b. True (Aletris) b. True (Aletris) b. Yalerian, Belgian b. "English b. "German b. "Japanese b. Yellow Dock b. Yellow Parilla b. Syanish b. Star b. Spanish b. Star b. Spanish b. Canary, "Spanish b. Canary, "Spanish b. Caraway, African b. Dutch b. Cardamom, bleached b. Cardamom, bleached b. Colchicum b. Coriander, Bombay b. Morocco b. Coriander, Bombay b. Coriander, Bombay b. Morocco b.	
Arabic, firsts D. 30 40	Thyme, Spanish D. French D. French D. Uva Urai D. Witch Hazel D. Wormwood imported D. Yerba Santa D. ROOTS Aconite, U.S.P. D. German D. Alkanet D. Alkanet D. Alkanet D. Alkanet D. Alkanet D. Angelica American D. Arnica D. Arnica D. Arnica D. Arnica D. Arnowroot, American D. St. Vincent D. Berberis, Aquifolium D. Berberis, Aquifolium D. Berberis, Aquifolium D. Blood D. Blood D. Blood D. Burdock, Imported D. American D. Calamus, bleached D. D.	- 15 11 - 111/4 114 - 14/4 109 - 10 08 - 10 14 - 15 114 - 15 - 90 225 - 250 335 - 40 35 - 37 5966 1012 10600 1012 10600 11820 12966 11517 1617	Stripped Spikenard b. Squill, white b. Stone b. Turmeric Madras b. Aleppy b. Chins b. Unicor false (Helonias) b. Valerian, Belgian b. *English b. *German b. *German b. *Japanese b. *Yellow Dock b. *Yellow Parilla b. Star b. Star b. Spanish b. Star b. Spanish b. Canary, *Spanish b. Morocco b. South American b. Cardaway, African b. Cardaway, African b. Cardamom, bleached b. Celery b.	

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Essential Oils, Oleoresins, Aromatic and Heavy Chemicals

Cumin, Levantb.	===	Essential Oils	Capsicum, 1-lb. bottles
Moroecob.	.1014101/2		[Cubeb
Dillb.	.11111/2	Almond, Bitter, U.S.P	Ginger
Germanb.	.131/2 .14	Bitter, f.f. P. A	Malefern
Bombaytb.		Sweet	
lax, wholeper bbl.		Peach Kernel	Imported
Groundtb.	.1112	Anise, U.S.P	Paraley Fruit (Petroselinum)Ib. 7.30 - 2.00
oenugreektb.		Bay	repper, basek
Iemp, Manchurian	.0909%	Bergamot	
Chiliantb.	.09091/2	Bois de Rose	Aromatic Chemicals
ob's Tears, whitefb.	.05%05	Cajuput, Native	
Larkspurtb.	.32 — .35	U.S.P	Acetophenone
obeliatb.	1.50	Camphor, Sassafrassytb1214	Amyl Saltevlate
dustard, Bari, Brownfb.		Japanese, white	Anethol
Dutchtb.	.2526	Caraway, Rectified	Anisic Aldehyde, C.P
Bombay, Browntb.	.141/2 .15	Lead, Free	Benzyl Alcoholtb. 2.25 - 2.75
	.1616%	Redistilled, U.S.P1b. 2.85 - 2.93	Benzyl Benzoate
California browntb.	.083/4 .083/4	Cedar, Leaftb. 2.15 - 2.25	Imported
English, yellow	.2021	Cedar Wood, light	Bromostyrol
arsley	.2329	Cinnamon, Ceylon, heavyfb28.00	Bromostyrol 1b. 11.50 —12.00 Cinnamic Acid 1b. 5.00 — 6.00 Cinnamic Alcohol 1b. 40.00 —45.00
Russian blue	.50 . — .51	Citronella, Ceylon	Cinnamic Alcohol
Indiantb.	.3334	Cloves, can	Cinnamic Aldenyde
White Indianb.	.121/13	Bottles	Citronellol
uincetb.		Copaiba, U.S.P	Imported
tape, English		Coriander, U.S.P	Coumaria
Japanese small	.1214 .1214	Croton	Francisco th 1.40 - 1.65
abadillatb.		Cumin	Eugenol
tramonium	.1617 .2526	Erigeron	Geraniol, from Citronellatb. 3.50 — 5.00 Geranyl Acetatetb. 5.75 — 6.50
tramonium	1.55 - 1.60	Eucalyptus, Australian, U.S.Plb. 1.00 - 1.05 Fennei, sweet, U.S.P	
Kombe	1.75 - 2.00	Geranium Pose Algerian th 250 - 025	Heliotropin
South American		Geranium, Rose Algeriantb. 8.50 — 9.25 Bourbon (Reunion)tb. 8.25 — 8.50	Indol, C. Poz. — —20.00 Importedoz. — —30.00
Vorm American	.1010%	Turkish	
Vorm, American		Ginger	Finale
SPICES		Gingergrasstb 3.25	Linalol Acetate
SPICES		Hemlock	Menthol
apsicum, African pods tb.	.1718	Juniper Berries, rect	Methyl Anthranilate
Bombay	.1516	Wood	Methyl Cinnamate
Japan Caps	.1920	Lavender Flowers, U.S.Pfb. 10.50 -11.50	Methyl Salicylate
China, Selected, matstb.	.2224 1	Garden	Mirhane, rect., drums extra.th1617
Saigon, assortment	.4547	Spike	Musk Ambrette
hilies, Japan	.27 — .28	Lemongrass, Native	Musk Ywlene th. 12.00 -14.00
Mombasatb.	.1819	Limes, Expressed	Phenylacetaldenyde
innamon, Ceylontb.	.4840		Phenylethylic Alcohol b. 38.00 -40.00 Phenylacetic Acld b. 12.00 -20.00
AmboynasIb.	.541/255	Linaloe	Rhodinol
Penang	.7080	Mirbane, ref., see Aromatic Chemicals	Rhodinol 1b. 20.00 —22.00 Imported 1b. — —30.00
Jamaica, white good	.121/213	Mustard, natural	*Safrol tb 1.25 Terpineol, C. P tb 1.25 Imported tb 2.70
Japanb.	.141/415	Neroli, bigarade	Imported
	.4849	Petale	Thymol
Banda, No. 2	.41 — .42	Artificial	Vanillin
Batavia, No. 2	.371/238	Nutmeg, U.S.P	Tioned actions to the state of
75s-80s	.3233	Orange, bitter	Heavy Chemicals
epper, Black Sing	.17171/2	Italian	Zicut, Olicilitatio
white	.2930	Origanum, Imitationfb3040	Acetic acid, 28 p.c., bbls., Incl.
imento, Selecttb.	.091/210	Orris Concrete	100 the 3.75
WAXES		Patchouli	56 p.c., bbls
ayberrytb\	.4547	Imported	
ees, light, crudetb.	.4344	Imported	Dedicatiled 100 the - 8 50
Light, refinedtb. Darktb.	.4849	Japanese	Pure
indelila	.3132	Petit Grain, So. Americatb 4.00	Alum, ammonia, lump
rnauba, Flor		Frenchtb. 9.00 — 9.50	Ground
	.8586	Pinus Sylvestris	Powdered
No. 1, North Country	65	Rose. French	Potash lump
No. 3, Fatty Gray	.4850	Bulgarian	Chrometb1718
Chalkytb.	.4548	Artificialoz. 2.75 — 3.25 Rosemary	Ground
eresin, Yellowtb.	.1415	Sandalwood. East Indiatb. 10.75 -11.00	Alum, Potash, Powderedtb07408 Soda, Ground100 lbs 6.3
White	.16 — .17	Sandalwood. East Indiatb. 10.75 —11.00 Sassafras, natural	Aluminum chloride, carboys.lb05
pan	.1920	Artificial	Anhadassa Th 15
ontan, crude	.35 — .36	Spearmint #h 1250 _1300	Sulph
*Bleachedtb.		Spruce Bb90 — .95 Tansy, Amer. Bb600 — 7.00 Thyme, red, French, U.S.P. bb. 1.70 — 1.75 White, French Bb. 210 — 2.25 Witten birth 600 — 615	Aluminum hydrate light
sokerite, crude, brownfb.	.3536	Tansy, Amer	Heavy th ORIGINAL 10
*Green		White, French	Arsenic, white
*Refined, whitetb.		Wintergreen, sweet birth 0.00 - 0.13	Red
*Demestic		Genuine Gaultheria 10.50 -10.75	Ammonio Anhudeome 10 33 - 35
		Wormseed Reltimore th 695 - 650	Ammonia Carbonate 1b123413
Refined, vellow			
Refined, vellow	081/4	Wormwood, Dom	Ammonia Water, 26 deg., car.lb103
Refined, vellow	081/4	Synthetic, U.S.P., bulk 1b. —	Ammonia Carbonate b 1234—13 Ammonia Water, 26 deg., car. b 10 20 deg., carboys b

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American Assets, gram a	Description 4-14 Mark and 10 100/	Dinitronaphthalene
Ammonium chloride, U.S.P. fb254	Pyroligneous Acid, Techgal12124 Saltpetre, Granulated	Dinitrotoluol
Sal Ammoniac, gray	16-14 6-1-	Diphenylamine
Granulated, white	Salt Cake	Dioxynaphthalene
Lump	Sait Care Soda Ash, 58 p.c. light. 100 fbs. 1.90 -2.15 Dense 58 p.c. bags 100 fbs. 2.40 -2.65 Caustic, 76 p.c	"G" Salt
Sulphate, foreign100 lbs	Dense 36 D.C. Dags 100 108. 2.40 - 205	Hydrazobenzene
*Dom., double bags100 fbs. 7.00 - 7.10	Caustic, 70 p.c.	Hydrazobenzene
Antimony, Sulphuret	F.o.b. Wks., basis 60.100 fbs. 2.00 - 3.80	Metanitraniline
Antimony, Sulphuret	F. A. S100 fbs. 4.25 - 4.35	
Golden No. 1	Ground, 76 p.c100 tbs. 4.50 — 4.75	Metanitroparatoluidine
No. 2	Southin Accepte	Methylanthraquinone
Vermillion	Bichromate	Monochlorbenzeltb0912
Blanc Fixe, dry	Bisulphateton — - 7.00 Carbonate, Sal. Sods in bbls. 1.25 — 1.35	Monoethylaniline
Barium chloride ton 05.00 -105.00	Carbonate, Sal. Soda in bbls. 1.25 - 1.35	Naphthalenediamine
Importedton 95.00 —105.00	Bicarponate	a-Naphthol, crude
Binoxide	Chlorate	b-Naphthol, distilled
Nitrate	Chlorate	1 · Sublimed
Barytes, floated, whiteton 25.00 -35.00	Hyposulph, bbls, gran, 100 fbs 3.60	a-Naphthylamine
Off color ton 14.00 -10.00	Kegs	a-Naphthylamine
Bleaching Pd., f.o.b.wks100 fbs. 2.50 — 2.75 Export F.A.S	Nitrate, tech100 fbs. 2.95 - 3.15	Neuille Winter's Acid
Bleaching Pd., f.o.b.wks100 lbs. 2,50 - 2,75	Phosphate	Nitrobenzoltb1617
Export F.A.S100 fbs 3.35	Refinedtb07071/2	Nitrochlorbenzoltb4045
Calcium Acetate100 lbs. 2.00 - 2.10	Nitrite	Nitropanhthalene
Carbide	Prussiate, Yellow	o-Nitrophenol
Carbonate	Prussiate, Yellow	o-Nitrophenol
Light	40 deg	Nierotoluol th -
Heavy	Sulphide, 60 p.c	o-Nitrotoluol
Chloride, solid, f.o.b.N.Y.ton 20.00 -25.00	30 p.c. crystals	o-Nitrotoluol
Heavy	30 p.c. crystals	H. C. L
Carbon bisulphide	Sulphate, Gl'b. salt100 lbs. 1.40 - 1.50 Sulphur Dioxide Com	H. C. L
Carbon bisulphide	Sulphur Dioxide Com	p-Phenylenediamine
	Sulphur crudeton 25.00 -30.00	
Copper Carbonate		
Subacetate (Verdigris) lb4548	Flour Com'l., bbis100 fbs. 1.60 - 2.00	
Powdered	Roll, 100 p.c	Pseudo-Cumoi
Cyanide chlor. Mix., 73-76 27 - 28	Flowers, 100 p.c100 fbs. 3.55 — 3.95 Sulphuric Acid, Tank carlots	"P" Salt
Sulphate 00.00 p.c. 100 % - 0.101/ 0.271/	Sulphuric Acid, Tank carlots	Resorcin, Technical
Sulphate, 98-99 p.c100 fbs. 8.12½— 8.37½ 99 p.c. carlots, N.Y100 fbs. 8.25 — 8.50	00 deg., 1.0.b. wkston10.00	Resorcin, Technical
	66 deg., f.o.b. wkston 21.00 -23.00	Schaefer Salt
Copperas, f.o.b. works100 fbs. 1.20 - 1.30	Oleum, f.o.b. wkston 22.00 -25.00	Tetranitromethylaniline fb 2.50
Pluorspar, Powderedton 42.00 -45.00	Tannic Acld, Tech	Tolidin
Acid Gradeton 50.00 -60.00	Tin, bichloride	Mix Toluidine
Fluorspar, Powdered	Crystals	o-Toluidine
Refinedgal. 3.75 - 3.80	Whiting	p-Toluidine
Hydrofluorie Ac. 08 p.e. bbls.tb0809	Zinc. carbonate	m-Toluvlenediamine
All n.c. in earhous the 11 - 12 .	Chloride, Fused	Xylene, puregal4050
52 p.c. in carboysb12	Granulated	Xylene, puregal4050 Xylene, Comgal4050
Lactic Acid, 22 p.c	Crystals 100 lb .43 - 45 Whiting 100 lb .1,50 - 1.75 Zinc, carbonate lb .08 - 21 Chloride, Fused lb .08 - 10 Granulated lb .11 - 13 Oxide, French lb .1213	COAL-TAR COLORS
Lead Acetate white arms the 14	Outdet 11100000 1110000000 11100000000000000	COAL-TAR COLORS
\$\frac{35}{2} p.c. in carboys ib	D	ACID COLORS:
Granulated	Dyestuffs, Tanning Materials	Black
Arsenate, powdered		Blue
Arsenate, powdered	and Accessories	Brown
Paste	COAL-TAB CRUDES	Fuchsin
Nitrate		
Onlds Tishanan American III	*Rengal C P gal 97 - 32	Occupe 11 % 45 - 50
Oxide, Litharge, Amer. pd.fb0913	*Benzol C. Pgal2732	Orange 11
Oxide, Litharge, Amer. pd. fb0913	*Benzol C. P	Orange 11
Oxide, Litharge, Amer. pd.fb0913 Foreign	*Benzol C. Pgal27 — .32 (90 p.c.)gal26 — .31 Cresylic acid, crude.95-97p.c.gal75 — .80	
Oxide, Litharge, Amer. pd.fb0913 Foreign	*Benzol C. Pgal27 — .32 (90 p.c.)gal26 — .31 Cresylic acid, crude,95-97p.c.gal75 — .80 50 p.cgal. — .60	
Oxide, Litharge, Amer. pd. tb. 09 — 13 Foreign b	*Benzol C. P	
Oxide, Litharge, Amer. pd. tb. 09 — 13 Foreign b	*Benzol C. P	
Oxide, Litharge, Amer. pd. tb. 09 — 13 Foreign	*Benzol C. P	
Oxide, Litharge, Amer. pd. tb. 09 — 13 Foreign	*Benzol C. P	
Oxide, Litharge, Amer. pd. fb. 09 — 13 Foreign fb	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. b09 — .13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 09 — 13 Foreign fb	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. b09 — .13 Foreign b094 — .13 Red, American b1044 12 Sulphate, basic b	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. b09 — .13 Foreign b094 — .13 Red, American b1044 12 Sulphate, basic b	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 99 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. tb. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. tb. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 99 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	**Benrol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. th. 09 — 13 Foreign	*Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benrol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign Red, American Balphate, basic White, Basic Carb., Amer dry in Oil, 100 lbs. or over. b. Lithopone Lime, hydrate Acetate 100 fbs. Sulphur solution Line, bydrate Lob. Numerican Lob. No. Murriatic acid, 63 20 deg. carboys. 100 fbs. 200 deg. 200 deg. 200 deg. Nitre Cake Lithopone Lob. Nitre Cake Lob. Lithopone Lob. Lob.	**Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign Red, American Balphate, basic White, Basic Carb., Amer dry in Oil, 100 lbs. or over. b. Lithopone Lime, hydrate Acetate 100 fbs. Sulphur solution Line, bydrate Lob. Numerican Lob. No. Murriatic acid, 63 20 deg. carboys. 100 fbs. 200 deg. 200 deg. 200 deg. Nitre Cake Lithopone Lob. Nitre Cake Lob. Lithopone Lob. Lob.	*Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign Red, American Balphate, basic White, Basic Carb., Amer dry in Oil, 100 lbs. or over. b. Lithopone Lime, hydrate Acetate 100 fbs. Sulphur solution Line, bydrate Lob. Numerican Lob. No. Murriatic acid, 63 20 deg. carboys. 100 fbs. 200 deg. 200 deg. 200 deg. Nitre Cake Lithopone Lob. Nitre Cake Lob. Lithopone Lob. Lob.	**Benrol C P	Red
Oxide, Litharge, Amer, pd. fb. Foreign Red, American Balphate, basic White, Basic Carb., Amer dry in Oil, 100 lbs. or over. b. Lithopone Lime, hydrate Acetate 100 fbs. Sulphur solution Line, bydrate Lob. Numerican Lob. No. Murriatic acid, 63 20 deg. carboys. 100 fbs. 200 deg. 200 deg. 200 deg. Nitre Cake Lithopone Lob. Nitre Cake Lob. Lithopone Lob. Lob.	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 99 — 13 Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 99 — 13 Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 99 — 13 Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 99 — 13 Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. 99 — 13 Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign Red, American Balphate, basic White, Basic Carb., Amer dry in Oil, 100 lbs. or over. fb. Lithopone Lime, hydrate Lithopone Lime, hydrate Marganise Lo.b. N Muriatic acid, 18 deg. carboys. 100 fbs. 20 deg. carboys. 100 fbs. 21 double Nitre Cake Oxide Nitric acid, 63 deg. carboys. Nitre Cake 103 deg. carboys. 104 double Nitre Cake 105 deg. carboys. 106 fbs. 107 double Nitre Cake 108 deg. carboys. 109 fbs. 109 double Nitre Cake 100 deg. carboys. 100 fbs. 105 double Nitre Cake 106 deg. carboys. 107 double Nitre Cake 108 deg. carboys. 109 fbs. 109 double 101 double 101 double 101 double 101 double 103 deg. carboys. 106 fbs. 107 double Nitre Cake 108 deg. carboys. 109 fbs. 109 double 109 double 109 double 100 double 100 double 100 deg. carboys. 100 fbs. 105 double 106 double 107 double 108 deg. carboys. 109 double 109 dog. carboys. 100 fbs. 109 dog. carboys. 100 fbs. 105 double 105 double 106 double 107 double 108 double 109 dog. carboys. 100 fbs. 105 double 105 dog. 106 double 106 double 107 double 108 double 109 dog. 109 dog	**Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign Red, American Balphate, basic White, Basic Carb., Amer dry in Oil, 100 lbs. or over. fb. Lithopone Lime, hydrate Lithopone Lime, hydrate Marganise Lo.b. N Muriatic acid, 18 deg. carboys. 100 fbs. 20 deg. carboys. 100 fbs. 21 double Nitre Cake Oxide Nitric acid, 63 deg. carboys. Nitre Cake 103 deg. carboys. 104 double Nitre Cake 105 deg. carboys. 106 fbs. 107 double Nitre Cake 108 deg. carboys. 109 fbs. 109 double Nitre Cake 100 deg. carboys. 100 fbs. 105 double Nitre Cake 106 deg. carboys. 107 double Nitre Cake 108 deg. carboys. 109 fbs. 109 double 101 double 101 double 101 double 101 double 103 deg. carboys. 106 fbs. 107 double Nitre Cake 108 deg. carboys. 109 fbs. 109 double 109 double 109 double 100 double 100 double 100 deg. carboys. 100 fbs. 105 double 106 double 107 double 108 deg. carboys. 109 double 109 dog. carboys. 100 fbs. 109 dog. carboys. 100 fbs. 105 double 105 double 106 double 107 double 108 double 109 dog. carboys. 100 fbs. 105 double 105 dog. 106 double 106 double 107 double 108 double 109 dog. 109 dog	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign Red, American Bulphate, basic Waite, Basic Carb., Amer. dry in Oil, 100 lba. or over. b. English Lithopone Lime, hydrate Acetate 100 fb. 200 - 2.05 Sulphur solution gal. 17 - 22 Manganesic Lithor. Sulp. 15 - 16 Sulp. 15 - 17 Magnesite ton 65.00 - 68.00 1.0 b. N. Y. 5b. 0344- 04 Muriatic acid, 20 deg. carboys. 100 fbs. 1.65 - 1.75 20 deg. carboys. 100 fbs. 1.65 - 1.75 22 deg. carboys. 100 fbs. 1.65 - 1.75 23 deg. carboys. 100 fbs. 1.65 - 1.75 Sulp. 16 - 1.80 Nitre Cake Oxide B. 40 - 99 Salts, single b. 14 - 16 double The Cake ton 425 - 5.00 Nitric acid, 63 deg. carboys fb. 05 - 0534 42 deg. carboys. 100 fbs. 1.65 - 0534 Phosphoric Acid, 83-88 p.c. b. 33 - 38 9 p.c. tech. 52 - 500 Potash Caustic, 88-92. fb. 28 - 32 Sticks Platser of Paris. bbbl. 1.55 - 1.80 True Dental bbl. 1.55 - 1.90 Potassum Bichromate B. 100 - 1.80 True Dental bbl. 1.75 - 2.00 Potash Caustic, 88-92. fb. 28 - 32 Sticks D. 100 - 1.80 Potassum Bichromate B. 20 - 24 85-90 p.c. b. 22 90-89 p.c. b. 33 - 34 Chlorate, cryst. b. 15 - 17	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign	**Benzol C. P	Red
Oxide, Litharge, Amer. pd. h. Foreign b. Red, American b. Sulphate, basic Carb., Amer. dry bin Oil, 100 lba. or over. b. Linglish b. Lithopone b. 074. 13 Lithopone b. 075. Lime, hydrate 100 b. 200 - 2.05 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 16 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 17 Magnesite t. ton 65.00 - 68.00 (1.0.b. N. Y. b. 033404 Muriatic acid, 100 lba 1.80 20 deg. carboys. 100 lba. 1.65 - 1.75 22 deg. carboys. 100 lba. 165 - 1.75 22 deg. carboys. 100 lba. 165 - 1.75 24 deg. carboys. 100 lba. 165 - 1.75 26 deg. carboys. 100 lba. 165 - 1.75 27 deg. carboys. 100 lba. 165 - 1.75 28 deg. carboys. 100 lba. 165 - 1.75 29 deg. carboys. 100 lba. 165 - 1.75 20 deg. carboys. 100 lba. 165 - 1.75 21 deg. carboys. 100 lba. 165 - 1.75 22 deg. carboys. 100 lba. 165 - 1.75 22 deg. carboys. 100 lba. 165 - 1.75 25 deg. carboys. 100 lba. 165 - 175 26 double b. 12 - 13 Nitre Cake d. 3d eg. carboys. lb. 05 - 0534 40 deg. carboys. lb. 05 - 0534 40 deg. carboys. lb. 05 - 0534 40 deg. carboys. lb. 056 - 074 42 deg. carboys. lb. 056 - 074 42 deg. carboys. lb. 056 - 074 42 deg. carboys. lb. 056 - 074 43 deg. carboys. lb. 056 - 074 44 deg. carboys. lb. 056 - 074 45 deg. carboys. lb. 074 - 074 47 laster of Paris. lb. lb. 1.50 - 1.89 48 lichomate d. lb. 1.75 - 2.00 49 lichomate d. lb. 1.75 - 2.00 40	**Benzol C. P	Red
Oxide, Litharge, Amer, pd. fb. Foreign	**Benzol C. P	Red

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OIL COLORS:	Fustic, Solid
Blue	Crystals 100 p.c
Orange	Extract 42 deg
Red III	Liquid, 51 deg
Scarlet	Gall
Nigrosine, spts. sol	Hematine Extract 51 degtb1618
Augrosine, water sol., blueID65	Crystals, 100 p. c
let	
Black	Indigo, natural
Blue Doentb8090	Indigotine, 100 p.c. pure
Brown	Logwood, solid
Yellow	Crystals, 100 p.ctb2830
	51 deg., Twaddle
Alizarin Blue, brighttb. 7.75 - 9.25	Osage Orange, Extract 42 degfb0910
Alizarin Brown, concth 2.50	Crystals, 100 p.e
Alizarin Orangetb 1.90	Pasteb10 Persian Berriesb
Alizarin Yellow G	Quebracho, see tanning.
Alixarin Yellow R	Quereltron, 51 degtb071/2081/2
Chrome Black, Dom 1.25 - 1.25 Chrome Black, Imp th. 220 - 230	Powdered, 100 p.c
Chrome Blue	The second of th
Alizarin Blue, bright 1b. 7.75 — 9.28 Alizarin, medium 1b. 6.25 — 7.50 Alizarin, medium 1b. 6.25 — 7.50 Alizarin Brown, cone 1b. — 2.50 Alizarin Crange 1b. 5.00 — 10.00 Alizarin Yellow G 1b. — 1.35 Alizarin Yellow R 1b. — 1.35 Chrome Black, Lom 1b. 220 — 2.35 Chrome Blue 1b. 2.20 — 2.75 Chrome Green, Dom 1b. 1.50 — 1.70 Chrome Green, Dom 1b. 1.50 — 1.70 Chrome Red 1b. — 2.00	MISCELLANEOUS DYESTUFFS
BASIC COLORS:	Albumen, Eggtb. 1.45 - 1.55
Auramine, Single O. Dom.tb 2.25	Blood, importedtb
Bismarck Brown Ytb90 - 1.00	Domestic
Auramine, Single O. Dom.tb 2.25 Auramine, Double O. Imp.tb 2.50 Bismarck Brown Y	Prussian bluetb7080
Bismarck Brown R b. 1.20 - 1.30 Chrysoidine R b 1.00 Chrysoidine R b 90 Crystal Violet b 90 Crystal Violet b. 5.00 - 5.22 Emerald Green, Crystals b 8.00 Green Crystals, Brilliant b. 6.00 - 7.00 Indige 20 p.c. paste b 75 Fuchsine Crystals, Dom. b. 4.00 - 5.00 Fuchsine Crystals, Imp. b. 12.00 - 12.50 Magenta Acid, Dom b. 425 - 5.00 Magenta Crystals, Imp. b. 10.00 - 12.00 Malachite Green, Crystals b. 4.20 Malachite Green, Powd 4.30 Methylene Blue, tech. b. 225 - 3.50 Methyl Violet b. 2.60 - 2.75 Phosphine G. Domestic b. 7.00 - 10.00 Rhodamine B, ex. con't b 27.00 Valonia, solid, 65 p.c. tan. b. 5.00 - 6.00 Victoria Blue B b. 5.00 - 5.50	Soluble
Crystal Violet	Turkey Red Oil
Green Crystals, Brilliant b. 6.00 - 7.00	Zinc Dust, prime heavyfb1214
Indige 20 p.c. paste	100-lb, tins
Fuchsine Crystals, Domtb. 4.00 - 5.00 Fuchsine Crystals, Imptb. 12.00 -12.50	Carload lots
Magenta Acid, Dom 1b. 4.25 - 5.00	
Majachite Green, Crystals. 1b. 0.00 -12.00 Malachite Green, Crystals. 1b 4.50	DEXTRINES AND STARCHES
Malachite Green, Powd	British Gumper 100 lbs. 8.00 - 8.50
Methylene Blue, techfb. 2.25 - 3.50 Methyl Violet	Dextrine, Corn, white or
Phosphine G. Domestic b. 7.00 -10.00	yellowper 100 fbs. 6.75 - 7.00
Rhodamine B, ex. con'tfb. — — 27.00 Valonia, solid, 65 p.c. tanfb. 5.00 — 6.00	Potato, white or canarytb1718
Victoria Blue B	Starch, Powd., bags & bbls 5.35 Pearl, Globe, bags & bbls 5.20
	Potato, Domestic
Victoria Red	Imported, duty paidtb080814
Victoria Yellow	
Agnatio, fine	RAW TANNING MATERIALS
	Algarobillaton185.00 -200.00 Divi Diviton 74.00 -76.00
Seed 10081/2 .06 Carmine No. 40	Hemlock Barkton 15.00 -16.00
Gambier, see tanning.	Mangrove, African, 38 p.c. ton110.00 -125.00
Gambier, see tanning. Indigo, Bengal	Bark, S. Aton 60.0065.00
Oudes	Myrobalanston 50.00 -60.00
Kurpahs	Oak Barkton 15.00 -16.00
Madder, Dutch	Groundton17.50
Nutgails, blue Aleppo	Quercitron Bark roughton 13.00 -15.00
Persian Berries	Sumac, Sicily, 27 p.c. tan.ton ————————————————————————————————————
Quercitron Bark, see tanning.	Virginia, 25 p.c. tanton ——120.00
Turmeric, Madras	Valonia Cupston
DYEWOODS	Deardton
Barwoodtb0608	Wattle Barkten90.00
Camwood, chips	TANNING EXTRACTS
Fustic. sticks	Chestnut, ordinary, 25 p.c. tan, bbls
Hypernic, chips	Clarified 25 p.c. ton, bbls. tb03½ Crystals, ordinary
*Logwood Stickston 50.00 -60.00 Chips	6 Clarified
Opercitron, see tanning.	Gambier, 25 p. c. tan
Red Saunders	I Common the so
EXTRACTS	Cubes, Singpaore
Archil, Double	Hemlock, 25 p.e. tanfb050514
Concentrated	Larch, 25 p.c. tan
Cutch, Mangrove, seen tanning.	
Deserves hours	Mangrove, 30 p.c. tan
Rangoon, boxes	Liquid, 25 p.e. tan
Tablet	Muskego 23-30 p.c. tan,
Tablet	Muskego 23-30 p.e. tan, 50 p.c. total solidstb01340134
Tablet	Muskego 23-30 p.c. tan,

Oak Bark, liquid, 23-25p.c.tanfb.		_	.0544
Quebracho, liquid, 35 p.c	_	-	.07%
*35 p.c. tan, untreatedfb.	-	-	.0634
"35 p.c. tan bleaching 1b.	-	-	.06
*Solid, 65 p.e. tan, ordinary. tb.	-	-	.13
*Clarified	-	-	-
Spruce, liquid, 20 p.c. tan, 50 p.e. total solids	.061	_	.0134 80.

Oils	46
ANIMAL AND F	
Cod Newfoundlandgal.	1.12 - 1.14
Norwegianbbl.	1.10 — 1.12 — —108.00
Cord Newfoundland gal	90.00 —92.00 .07 — .0734 .07½— .0834
Horseb.	.1113
Lard prime gal. Off prime gal. No. 1 gal.	1.85 1.75 1.43
Extra, No. 1gal, No. 2gal.	1.50 1.38
Menhaden, Light strainedgal.	1.18 1.20
Yellow, bleachedgal. White, bleached, winter.ib.	1.20 1.22
Southern, crude, f.o.b. plant.gal.	95
30 deg., cold testgal.	$\frac{-2.25}{-2.05}$
Dark gal.	$\frac{-1.90}{1.60}$
Primegal.	1.75 — 1.80 .25 — .32
Red (Crude Oleic Acid)tb.	16 16
White, bleached, winter.tb. Northern, crude	1.95 - 2.00
45 deg., cold testgal.	1.90 — 1.95
testgal.	1.95 - 2.00
Double pressed	26 27
Triple pressed	1.50 - 1.55
Whale natural wintergal.	1.45 — 1.50 1.30 — 1.35
Bleached, wintergal.	1.35 — 1.40
Castor, No. 1 bbls	20 21
No. 3	.181/2 .19
Coconut, Dom. Ceylon, bbls. 15.	.1914— .191/2
Cochin, bb.s bbls., Domtb.	.19 — .1914
"Tanks	.1934— .20 .1834— .1834
Corn, refined, bblstb.	= = .23½ = = .19
Cottonseed, Crude, f. o. b.	.191/20
Summer, yel., prim., bbl. fb.	.2122
"Winter, yellow	.231425
5 barrel lotsgal.	$\frac{-}{-}$ $\frac{-}{1.90}$
Bolled, 5-bbl. lotsgal. Double Boiled, 5-bbl. lots	1.93
Red (Crude Deic Acid) book Saponified by Saponified set gal. 45 deg., cold test gal. 50 de	$\begin{array}{cccc} & - & 1.94 \\ 2.50 & - & 2.55 \\ 3.10 & - & 3.20 \end{array}$
Palm, Lagos, casks	.19¼— .19¼ .17 — .17¼
*Benin	.161/4 .161/4
*Palm Kernel, domestic	===
Peanut Oil, refined	.27 — .28 .23 — .24
Oriental, coast, tanksfb.	23 - 231/2
Rapeseed, ref'd, bblgal.	2.75 - 3.00 1.60 - 1.65 1.65 - 1.70
*Sesame, domestic, ediblegal.	$\frac{1.65}{-} = \frac{1.70}{2.50}$
*Importedgal.	.17171/2

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(Chicago Markets)		Miscellaneous	F 6 15 %	Wood Turpentine, steam dis- tilled, bbls gal.	<u>#</u>	- 1.55
"B" White	16%16161616%15½1614½151311½12½10½10½10½23	Accura D.	.1819 .2022 .2528 .2830 .21½23 1.60		50	- 1.60 -10.50 -17.00 -17.30 -17.50 -18.25 -18.40 -19.60 -20.00 -21.00 -23.00 -23.00 -24.00

Imports of Drugs and Chemicals, Dyestuffs, Etc.

Imports from Dec. 26 to Jan. 2

ACIDS—Arsenic, 192 bbls., American Metal Co., Ltd., Tampico; Cresylic, 20 drums, W. E. Jordan, Inc., Glasgow; 42 drums, Brown Bros. & Co., Glasgow; 42 drums, Brown Bros. & Co., Glasgow; Miscellaneous, 80 drums, J. E. Wood, Glasgow AGAR—AGAR—25 cs., D. Nagasi & Co., Inc., Kobe; 55 bbls., W. R. Grace & Co., Kobe; 15 bbls., O. J. Weeks & Co., Osaka ALBUMEN—4 cs., Lehn & Fink, Antwerp; 32 cs., D. Nagasi & Co., Ltd., Nagoya; 81 cs., 100 cs., Mistui & Co., Nagoya; 7 cs., Mogi & Co., Nagoya; 402 cs., Mendelsohn & Co., Nagoya; 200 cs., 50 cs., A. Klipstein & Co., Nagoya; 200 cs., 50 cs., Albustein & Co., Nagoya; 106 cs., Balfour, Williamson & Co., Nagoya; 20 cs., 50 cs., 140 cs., Nagoya; 168 cs., Balfour, Williamson & Co., Nagoya; 7 cs., D. Nagasi & Co., Yokohama; 415 cs., Baring Bros. & Co., Yokohama; 415 cs., Baring Bros. & Co., Yokohama; 415 cs., Baring Bros. & Co., Yokohama & Co., Bristol; Sweef, 22l cs., France & Canada Steamship Corporation, Valencia; 100 bgs., Bank of New York, Marseilles; Sweef, 22l cs., France & Canada Steamship Corporation, Valencia; MMONIUM MURIATE—17 cs.ks., Richmond Products Co., Bristol; 32 csks., Innis, Speiden & Co., Bristol; 32 csks., Takuta & Co., Martin Martin & Colors—2 bbls.

chaux, Antwerp ANTHRACENE-110 csks., Takuta & Co.,

Yokohama
AHTIMONY—394 cs., H. R. Sgencer & Co.,
Kobe; 224 bgs., M. Goyenach & Co., Antofogasta; Crude, 1,000 cs., Wah Chang
Trading Co., Nagoya
ANTIPYRINE—2 cs., C. L. Hulsking, Havre
ARBCA NUTS—276 bgs., Brown Bros. &
Co., Colombo
ARGOLS—746 bgs., Brown Bros. & Co.,
Buenos Aires
Buenos Aires
Buenos Aires
Buenos Aires
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Co., Colombo
ARGOLS.—746 bgs., Brown Bros. & Co.,
Buenos Aires
ARSERIC—193 bbls., Niagara Electro Chemical Co., Antwerp; 20 cs., J. Mitkowskil
& Co., Kobe; Crude 1,000 cs., Furnkawa
& Co., Yokohama; Powder, 300 cs., S.
Suzuki & Co., Osaka; White, 606 cs.,
Liberty National Bank, Kobe

BALSAM COPAIBA—13 cs., Neuss, Hesslein
& Co., Central American Ports; 5 cs.,
Ultramares Corporation, Central American
Ports; 5 cs., Mercantile Bank of America,
Inc., Central American Ports; 4 cs., Gustave Amsinek & Co., Kingston
BARK—Medicinal, Miscellaneous, 50 bls.,
Duncan, Fox & Co., South Pacific Ports;
279 bls., L. J. Barber & Co., Antofogasta;
Ouillaya, 55 bgs., Matthews & Ventura,
Ltd., Talcahuano; 132 bls., A. Nanez &
Co., Talcahuano; 132 bls., A. Nanez &
Co., Talcahuano;
BEANS—Cocca, 245 bgs., Brown Bros. &
Co., Colombo; 1,500 bgs., National Park
Bank, Cristobal; 275 bgs., R. A. Putman
& Co., Cristobal; 4,000 bgs., Mercantile

Bank of America, Cristobal; 500 bgs., F. E. Chilck & Co., Cristobal; 500 bgs., Ultramares Corporation, Cristobal; 160 bgs., Camancho, Rolden & Van Sickel, Cristobal; 9,685 bgs., A. Roberts & Co., Barbados; 2,000 bgs., 2,500 bgs., 2,000 bgs., 1,500 bgs., 11 bgs., Mercantile Bank of America, Inc., South Pacific Ports; 4,500 bgs., 1,500 bgs., E. F. Childs & Co., South Pacific Ports; 1,500 bgs., E. F. Childs & Co., South Pacific Ports; 1,000 bgs., J. W. Farrel, South Pacific Ports; 1,000 bgs., J. W. Farrel, South Pacific Ports; 1,000 bgs., I. Brandon & Bros., South Pacific Ports; 1,000 bgs., National Park Bank, South Pacific Ports; 500 bgs., R. A. Putnam & Co., South Pacific Ports; 500 bgs., R. A. Putnam & Co., South Pacific Ports; 500 bgs., Neuss, Hesslein & Co., South Pacific Ports; 700 bgs., Ultramares Corporation South Pacific Ports; 1,200 bgs., Gillespie Bros. & Co., Trinidad; 20 bgs., E. F. Darrell & Co., Trinidad; 20 bgs., E. Darrell & Co., Trinidad; 250 bgs., E. Darrell & Co., Trinidad; 250 bgs., E. Darrell & Co., Trinidad; 250 bgs., E. F. Darrell & Co., Trinidad; 250 bgs., Royal Bank of Canada, Trinidad; 275 bgs., A. D. Strauss & Co., Trinidad; 275 bgs., Americantile Bank of America, Inc., Trinidad; 25 bgs., Frame, Leaycraft & Co., Inc., Grenada; 20 bgs., Brown Bros. & Co., Trinidad; 3,500 bgs., Bank of New York, Bahia; 56 bgs., Suzarte & Whitney, Venezuelan Ports; 500 bgs., W. Schall & Co., Laguayra; 100 bgs., W. Schall & Co., Laguayra; 100 bgs., Huttlinger & Struller, Jeremie; 38 bgs., Leon Israel & Bros., Heremie; 38 bgs., Leon Israel &

CALCIUM HYPOPHOSPHITE—40 cs., Scott & Bowne, Southampton CAMPHOR—100 cs., D. Nagasi & Co., Inc., Kobe: 150 cs., American Camphor Refining Co., Kobe: 160 cs., Ct. L. Hopkins, Kobe: 100 cs., Kurava Trading Co., Ltd., Osaka: 525 cs., Eastment & Kilbourn, Hongkong; 100 cs., Mitsui & Co., Hongkong; 50 cs., Brown Bros. & Co., Yokohama: Refined, 50 cs., Winter Ross & Co., Kobe: Refined, Slabs, 150 cs., Kahara Trading Co., Ltd., Kobe: 150 cs., 50 cs., C. Itoh & Co., Kobe CARBON—1 cs., B. Bandler & Sons, Bahia CASEINE—1,241 bgs., 2,534 bgs., Brown Bros. & Co., Buenos Aires; \$23 bgs., French

American Banking Corporation, Buenos Aires
CHALK, PRECIPITATED—220 csks., 300 bgs., National Anlline & Chemical Co., Bristol
COPRA—21 bgs., Franklin Baker Co., Cristobal; 85 bgs., A. D. Strauss & Co., Trinddad
CUTTLEFISH BONE—32 cs., E. Baccari,
Genoa; 14 cs., Irving National Bank, Ant-

Genoa; 14 Us., 11 Us., 12 Us., 12 Us., 13 Us., 14 Us., 15 Us., 15 Us., 16 Us., 17 Us., 18 Us.,

bgs., 2,012 bgs., Gustave Amslinck & Co., Curacao; 4,400 bgs., Caracas Trading Co., Curacao; DRUGS—4 cs., Brown Bros. & Co., Colombo; 1 cs., Equitable Trust Co., Havre DYESTUFFS—Alizarne, 5 cs., W. A. Foster & Co., London: Cochineal, 131 scks., W. R. Grace & Co., South American Ports; Dyes, 27 cylindess, F. Bredt & Co., Antwerp; 10 cylinders, Andreykovlez & Dulsk. Inc., Antwerp; 20 cylinders; J. B. Fortner & Co., Antwerp; 14 kegs, E. M. Thayer & Co., Antwerp; 14 kegs, E. M. Thayer & Co., Antwerp; 19,50 bgs., Hayti Manufacturing Corporation, Cape Haytien; Miscellaneous, 2 csks., F. Behrend, Inc., Copenhagen; 1,077 bgs., 1,872 bgs., Lee Higginson & Co., Buenos Aires; 1,930 bgs., First National Bank of Boston; 4,849 bgs., Handelsmaatschappi Transmarina: Quebrache, 3,144 bbls., New York Quebrache Extract Co., St. Thomas; 1,343 bgs., National Park Bank, Buenos Aires; 1,339 bgs., American Trading Co., Lid., Buenos Afres; Rennet, 4 csks., Thos. Meadows & Co., Copenhagen FLOWERS—Chamomile, 98 bls., Brown Bros. & Co., Antwerp GALL-NUTS—700 cs., Mallinckrodt Chemical

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& Midland Bank, Aden; 20 bgs., National
Bank of Egypt; 200 bgs., Equitable Trust
Co., Aden; 300 bgs., National Bank of South
Africa; 300 bgs., National Bank of Egypt;
Aden; 1,350 bgs., 1,394 bgs., 465 bgs., 78 bgs.,
61 bgs., Brown Bros. & Co., Aden; 71 bgs.,
American Express Co., Smyrna; 12 bgs.,
Brown Bros. & Co., Smyrna; 12 bgs.,
Brown Bros. & Co., Smyrna; 25 bgs.,
Brown Bros. & Co., Smyrna; 27 bgs., Gustave Amsinck & Co., Vera
Cruz; Guaiac, 1 cs., Huttlinger & Struller,
Gonalves; Mastic, 15 cs., G. Anastaskia,
Piraeus; 50 cs., Indian Bank, Ltd., Piraeus;
71 cs., Grecian Import & Trading Co.,
Panama
HERSS—Medicinal, 50 cs., France & Canada

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Liverpool
ISINGLASS—20 bgs., C. Itch & Co., Kobe
ISINGLASS—20 bgs., Maywood Chemical
Works, South Pacific Ports; Matico, 1 cs.,
Gravenhorst & Co., South Pacific Ports;
Rose, Z cs., New England Agency Co.,
Aden; Senna, 126 bgs., 87 bbls., 600 bls.,
200 bls., Brown Bros. & Co., Aden; 154
bgs., Comptoir National d'Escompte de
Paris, Alexandria
IJME NITRATE—1 csks., C. F. Garrigues
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& Co., Brievak
MEDICINES-Miscellaneous, 3 ca., Brown
Bros. & Co., London; 40 cs., J. Personeni,
Genoa; 4 cs., H. K. Mulford & Co., Buenos

Aires
MENTHOL, CRYSTALS—10 cs., 40 cs., C.
Morningstar & Co., Kobe; 25 cs., C. Itoh
& Co., Kobe; 25 cs., D. Nagasi & Co.,
Yokohama; 25 cs., D. Nagasi & Co., Yoko-

hama MERCURY-10 flasks, Transoceanic Commer-cial Corporation, Vera Cruz; 13 flasks, Conner Bros. & Co., Vera Cruz MYROBALANS-6,000 pockets, Brown Bros.

MYROBALANS 6,000 pockets, Brown Bros. & Co., Calcutta
NAPHTHALENE—140 csks., J. E. jordon,

WUX VOMICA-3,040 bgs., Brown Bros. &

Co.

OILS—Camphor, 2,000 cs., A. Chirls & Co., Kobe; 5,000 cs., Dodge & Olcott Co., Kobe; 1,000 cs., Suzuki & Co., Kobe; Coconut, 184 caks., Brown Bros. & Co., Aden; 6 cs., Robertson, Cole & Co., Calcutta; Cod, 98 bbls., J. F. Kalser & Co., Inc., Bristol; Codiwer, 28 bbls., E. R. Squibb & Sons, Christiania; 200 bbls., Thos. Nevin, Carlstiania; 10 cbls., Thos. Nevin, Carlstiania; 12 cs., Hoff, Cleve Corporation, Christiania; 13 bbls., Brown Bros. & Co., Carlstiania; 30 bbls., Thosw Bros. & Co., Calcutta; Linased, 20 bbls., Grossens & Co., Calcutta; Linased, 20 bbls., Grossens & Van Rossam; Olive, 190 cs., Strohmeyer & Arpe Co., Genoa; 140 cs., D. A. Shaw & Co., Genoa; 2 cs., S. G. Khoury, Smyrna; Pesant, 20 bbls., Mogi & Co., Kobe
OILS, ESSETTIAL—Juniper Berry, S cs., Smith & Schipper, Genoa; Linalee, 14 cs.,

Brown Bros., & Co., Vera Cruz; Palmarosa, 16 cs., C. F. Smillie & Co., Kobe; Pepper-mint, 75 cs., 25 cs., C. Itoh & Co., Kobe; 160 cs., Irving Trust Co., Yokohama; Petit Grain, 30 cs., Equitable Trust Co., Buenos

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Aires
ORANGE PEEL—68 bls., France & Canada
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PERPUMERY—8 cs., C. G. Euler, Havre;
149 cs., Brown Bros. & Co., Marseilles;
2 cs., George Lueders & Co., Genoa; 1 cs.,
D. C. Andrews & Co., Antwerp; 1 cs.,
C. Exanthos, Piracus
POTASH—14 bbls., National City Bank,
Copenhagen; 12 cs.ks., Bech, Van Sclen &
Co., Copenhagen; 22 cs.ks., Bech, Van Sclen &
Co., Copenhagen
POTASSUM SALTS—135 bgs., 395 bgs.,
Guaranty Trust Co., Antwerp; Carbonate,
50 cs., Liberty National Bank, Osaka; 200
cs., S. Suzuki & Co., Osaka; 40 cs., 20 cs.,
Export American Co., Osaka; 16dide, Granular, 20 cs., S. Suzuki & Co., Yokohama;
Perchlorate, 28 bbls., American Railway
Signal Co., Bristol
QUIRINE SULPHATE—18 cs., R. W. Greeff
& Co., London

QUILINE SULPHATE—18 cs., R. W. Greett & Co., London ROOTS—Ipecac, 2 cs., Fidanque Bros., & Sons, Panama; Jaiap, 4 bgs., Marasai Co., Vera Cruz: Licorice, 5 bls., Missui & Co., Tientsin; Medicinal, Misscellaneous, 7 bgs., Marquardt & Co., Vera Cruz: Sansaparilla, 11 bls., Marasai Co., Vera Cruz: Valerian, 17 bls., C. Lilly & Co., Antwerp; 33 bls., Norwich Pharmacal Co., Antwerp SACCHARIN—10 cs., R. S. Fuller & Co., Yokohama

SAFFRON-2 cs., P. E. Anderson & Co.,

Havre SAFROL—10 drums, J. B. Horner, Inc., Kobe; 25 drums, George Lucders & Co., Kobe; 25 drums, Dodge & Olcott Co., Kobe SAL AMMONIAC-Lump, 20 csks., C. D. P. Field & Co., Bristol; 50 csks., C. D. P. Field & Co., Bristol

SALYPYRINE-1 cs., Samson & Rosenblatt,

SANDALWOOD-6 cs., Brown Bros. & Co.,

Calcutta
SEED—Canary, 228 bgs., 940 bgs., Brown
Bros., & Co., Buenos Aires; Castor, 1,498
bgs., Bank of New York, Santos; 7,827 bgs.,
Brown Bros. & Co., Pernambuco; 32 bgs.,
Brown Bros. & Co., Jacmel; Linseed, 29,218
bgs., 8,006 bgs., 960 bgs., Brown Bros. &
Co., Buenos Aires; 8,644 bgs., National
Bank of Commerce, Buenos Aires; 10,025

bgs., Smith & Schipper, Buenos Aires; 81,684
bgs., Brown Bros., & Co., Rosario; Mustard,
400 bgs., 83 bgs., Brown Bros. & Co.,
Copennagen; 200 bgs., London & Liverpool
Bank of Commerce, Copenhagen; 497 bgs.,
Loewith Larsen & Co., Copenhagen; 97 bgs.,
Loewith Larsen & Co., Copenhagen; Sulver SulverlDE—34 bgs., Kleinwort
Sons, Antofogasta; 59 bgs., L. Lional
Barbar, Antofogasta; 59 bgs., L. Lional
Barbar, Antofogasta; 59 bgs., Bank of Chile,
Antofogasta; 6 cs., Baring Bros. & Co., Antofogasta; 6 cs., Baring Bros. & Co., Antofogasta; 13 cs., Anglo French Ticapampa
Mineral Co., Antofogasta
SODIUM SALTS—Carbonate, 3 bbls., G. W.
Sheldon & Co., Copenhagen; Chlorate, 539
kegs, A. Dalager & Co., Christiania; 163
kegs, Warren Products Co., Christiania; 163
kegs, Warren Products Co., Christiania; 164
kegs, Warren Products Co., Christiania; 163
kegs, Co., Marseilles
SPICES—Cassia, 100 cs., S. Steifel & Co., &
Son, Genoa; Prussiate, 22 csks., Brown
Bros. & Co., Marseilles
SPICES—Cassia, 100 cs., S. Suzuki & Co.,
Hongkong; Pepper, White, 14 bgs., Brown
Bros. & Co., Colombo
SPONGES—3 bls., Lasker & Bernstein; 6
bls., A. Stratigos, Piracus; 8 bls., F. M.
Migilia, Piracus
STRYCHNINE, ALKALOID—1 cs., R. W.
Greeff & Co., London
TALT—304 scks., France & Canada Steamahlo Corporation. Valencia; 113 scks., South-

TARTAR—304 seks., France & Canada Steam-ship Corporation, Valencia; 113 seks., South-ern Pacific Co., Marseilles; 42 csks., Bank of New York, Marseilles; 104 seks., Chas. Pfizer & Co., Marseilles

WATER—Flower, 15 cs., J. Maloof & Co., Smyrna; Mineral, 20 cs., L. J. Shannan, Kobe; 5 cs., J. Michas, Piraeus; 60 cs., B. Judea & Co., Rotterdam; Rose, 4 cs., S. G. Khoury, Smyrna; 9 cs., J. Maloof & Co., Smyrna

Co., Smyrna

WAX—Bees, 112 bgs., Brown Bros. & Co., Rio de Janeiro; 3 cs., W. Schall & Co., Jeremie; 128 bgs., W. Schall & Co., Jeremie; 128 bgs., W. Schall & Co., Jeremie; 128 bgs., Co., Jeremie; Carnaba, 84 bgs., Hagemeyer Trading Co., Ceara; 187 bgs., Lazard Freres Ceara; 110 bgs., Brown Bros. & Co., Ceara; 16 seks., P. S. Nicholson & Co., Inc., Caracao; Paraffin, 1 cs., Brown Bros. & Co., Lucacao; Paraffin, 1 cs., Brown Bros. & Co., Alexandria; Vegetable, 100 cs., C. F. Smillie & Co., Kobe

WOOD—Bitterwood, 50 tons, J. E. Kerr & Co., Baracoa; Cocobola, 230 pieces, Hollinhorst & Co., Panama; Quebracho, 23,641 pieces, New York Quebracho Extract Co., St. Thomas

NEW DYE WORKS INCORPORATED

Many dye works are being enlarged and new ones incorporated, now that the future of the dyestuff industry in the United States seems assured by the passage of the Longworth bill. The list includes the Crystal Piece Dye Works, Inc., New York, which has increased its capital from \$5,000 to \$50,000; the Spooner Dye Works, New York, incorporated by J. and J. Cuchiara and A. Granatelli, capital \$10,000; the Magic Products Corporation, New York, incorporated by J. C. Berrien, H. Freidman and J. Kahn, capital \$10,000; the Narlinton Extract Dye & Chemical Co., incorporated under the laws of West Virginia by C. A. Weagher, G. W. Hunley, Jr., and J. A. Dennison, with a capital of \$200,000; the Erie Dyeing Company, Cleveland, Ohio, recently incorporated under the new name of the Erie Dyeing & Processing Company, with a capital of \$10,000; the Superior Dye Works, Brooklyn, N. Y., which will erect a \$10,000 plant; the Universal Aniline Dye & Chemical Co., Milwaukee, Wis., which plans the construction of a plant in the South Milwaukee district; the Utica Dyeing Co., Utica, N. Y., which will erect an addition to its plant; and the Amalgamated Dyestuff Chemical Works, Newark, N. J., which plans an \$8,000 extension to its plant.

Frederick B. Meeker has retired from Brown Brothers & Co., after association with that firm for more than fifty years. For the last twenty years he was head of the firm's commercial credit department

FEWEST FAILURES SINCE 1881

With fewer commercial failures than in any year back to 1881, when the total number of firms in business was less than half of what it is at present, the 1919 insolvency statement contributes largely to an annual statistical exhibit that has no precedent. Preliminary returns to R. G. Dun & Co. disclose only 6,445 defaults for the year just ended, exclusive of banking suspensions and personal bankruptcies, and \$112,790,-037 of liabilities, as against 9,982 reverses for \$163,019,-979 in 1918, when the showing was considered remarkably favorable. Without exception, failures in each quarter of 1919, both in number and indebtedness, fell materially below those of 1918, although in the last quarter of the past year a tendency toward increase was witnessed.

Tin scored an advance in London of £6 5s on sales of 350 tons futures and 70 tons spot. The market was reported strong at the advance. Straits tin was also higher by £6 5s for spot and £5 for shipment from the Far East. The quotations as cabled the Metal Exchange were: Standard, spot, £347 10s; futures, £349 10s; Straits, spot, £348; Eastern shipment, £338 10s. The local market responded by an advance of a full cent per pound, which brought the market to 60%c by early afternoon. price was actually bid for the metal against an asking price of 61c. For shipment from England importers asked 61c and for shipment from the Far East 611/4c.

New Incorporations

Egyptian Chemical Co., Boston, Mass., capital \$90,000. George E. Bangs, Arthur A. Rollins, George E. Babson, M. G. Hoggett, B. A. Beecher.

Kadeem Drug Co., Inc., Brooklyn, capital \$24,000. J. Dunieff, H. Messinger, David N. Katz, Brooklyn.

Shawinigan Products Corporation, Manhattan, capital \$200,000. Carbide, acetic acid and chemicals. R. E. Dwight, T. A. O'Callaghan, J. B. Breckenridge, 96 Broadway, New York.

California Chemical Co. Dover, Del., capital \$1,000,000. B. B. Colfax, J. M. Bengal, H. L. McMan, all of Los Angeles, Cal.

Dura Chemical Co., Philadelphia, Pa., capital \$100,000. To manufacture dyestuffs and chemicals. J. V. Pimm, E. M. MacFarland, F. R. Hansell.

Ver-Vac Co., Baltimore, Md., capital \$50,000. Flavoring extracts. Harry R. Nicholson, Carl Murbach, W. Howard Hamilton, Baltimore.

Schur-Lustre Co., Washington, D. C., capital \$5,000. Frank L. Peckham, Frank Van Sant, Carlyle S. Baer, Washington.

Milano Chemical Co., Tulsa, Okla., capital \$30,000. J. M. Robins, Homer A. Orcutt, Tulsa; Chester E. Lobaugh, Oklahoma City.

Exidol Laboratories, Inc., Dover, Del., capital \$100,000. Robert K. Thistle, George V. Reilly, A. Roy Meyers, all of New York.

Bryant and Cooper, Inc., Brookline, Mass., capital \$25,-000. Frederick W. Bryant, of Allston, Mass.; Katherine E. Flynn, Brighton, Mass.; W. Lloyd Allen, Newtonville. Mass.

Madame M. Yale, Inc., Manhattan, capital \$150,000. To manufacture chemicals, toilet preparations and druggists sundries. J. J. Leahy, Jr., E. B. Myers, R. McCord, 59 Wall St., New York.

P. and Z. Corporation, Brooklyn, capital \$10,000. To deal in chemicals. Charles Rubin, Blanch Rubin, Toby Zimmerman, Brooklyn.

Gilbert Fertilizer Co., Gilbert, South Carolina, capital \$20,000. P. A. Smith, J. Collins Price, of Gilbert.

Greenville Fertilizer Co., Greenville, South Carolina, capital \$10,000. W. G. Hudgens, C. G. Hunter, of Greenville.

Pepsinic-Seltzer Co., Worcester, Mass., capital \$50,000. Frank A. Sanderson, Joseph W. Lavigne, Arthur B. Brunell, Albert A. Brunell, Worcester.

John Post Corporation, Manhattan, capital \$20,000. Druggists' supplies. S. Post, G. Storer, W. Weller, 107 West 97th St., New York.

Church and Scott, Inc., Cooperstown, N. Y., 200 shares common stock, no par value; active capital \$12,000. C. A. and S. P. Scott, E. M. Clapsaddle, Cooperstown.

The Roxton Perfume Co., Bronx, capital \$6,000. S. Sottosanti, C. Salerno, G. Blondolillo, 2424 Hughes ave., Bronx.

The Supreme Cleaners and Dyers, Inc., Mt. Vernon, N. Y., capital \$80,000. I. and N. Nelson, S. Hoffman, 901 Fox st., Bronx.

The Yardley Chemical Corporation, Manhattan, capital \$450,000. J. Piper, R. Rey, J. E. Gilbert, 57 West 75th st., New York.

Chinese Fur Dyeing Co., Brooklyn, capital \$30,000. S. Zechowy, J. Wetzer, A. Kaplan, 387 Decatur st., Brooklyn. The Murphy Wholesale Drug Co., Dover, Del., capital \$25,000. P. J. Murphy, W. M. McAndrews, M. F. Donahoe, all of Scranton, Pa.

Western Fertilizer Co., Dover, Del., capital \$10,000. T. L. Croteau, H. T. Knox, S. E. Dill, representing a Wilmington trust company.

Merger-Miller-Strong Drug Co., Buffalo, with Druggists Merchandising Corporation.

Reorganization—Imex Corporation, 23 Beaver st., New York, 500 shares preferred stock, \$100 each; 1,000 shares common stock, no par value; active capital \$55,000.

Capital Increases—Worden Drug Co., Watertown, N. Y., from \$12,000 to \$30,000.

E. T. Browne Drug Co., Manhattan, from \$50,000 to \$100,000.

Fishburn's Dyeing and Dry Cleaning Co., Dallas, Tex., from \$75,000 to \$150,000.

Worden Drug Co., Watertown, N. Y., from \$12,000 to \$30,000.

Authorizations—V. Vivaudou, Inc., Delaware, agents for toilet articles; 300,000 shares common stock, no par value, active capital 30 shares. Representative A. Levine, 69 New st., New York.

British Incorporations

Wm. Browning Co., Ltd., has been incorporated in England, with capital of £70,000 to take over the business carried on at Albert Works, Camden Town, N. W., as Wm. Browning & Co., Ltd., and to carry on the business of chemists, druggists and oil merchants.

Four Ashes Manufacturing Co., Ltd., has been incorporated in England with capital of £100,000, to carry on the business of manufacturing chemists and manufacturers and distillers of tar and all products and derivatives therefrom, manufacturers of oils, soaps, greases, paints. varnishes, and disinfectants. Representative, W. O. Vizard, 10a Featherstone Buildings, London, W. C. 1.

Steadmans (Weymouth), Ltd., has been incorporated in England, with capital of £2,000 to take over the business of chemist, carried on by F. H. Cox, at St. Thomas street, Weymouth, and Melcombe Regis, Dorset. The first directors are: F. G. Howard. M.P.S., 1 Lyndhurst Terrace, Weymouth, chemist; and C. H. Bulloch, Summerland, Weymouth, Representative: 87 St. Thomas st., Weymouth.

Alfred Bishop (Subsidiaries), Ltd., has been incorporated in England with capital of £500 to carry on the business of manufacturing, wholesale, and retail chemists, druggists, drysalters, oil and color men, importers, exporters and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial, toilet, and dental preparations.

The Pittsburgh Chemical Products Co. has made application to the Governor of Pennsylvania for a charter. The incorporators named in the petition are Benjamin H. Arnheim, Anna W. Arnheim, James J. Brown, Emanuel Victor Arnheim and S. H. Liggett. A. H. Kaufman is solicitor for the company, which proposes to manufacture, buy and sell all kinds of chemical substances, preparations, compounds and compound specialties.

The West Texas Wholesale Drug Co. has been organized by John T. Reeves, of Oklahoma City, C. C. Pollard, a druggist of Midland, Tex., and Will P. Grace, of Dallas, Tex. The company will locate at Sweetwater, Tex.

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